Test Bank for Introductory Algebra 6th Martin Gay

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MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

List the factors of the number.

1) 9
A) 3, 9 B) 1, 3, 6, 9 C) 1, 3 D) 1, 3, 9
Answer: D

2) 125
A) 5, 25, 125 B) 1, 5, 25, 45, 125 C) 1, 5, 25, 125 D) 1, 5, 25
Answer: C

3) 10
A) 1, 10 B) 2, 5, 10 C) 1, 2, 5, 10 D) 2, 5
Answer: C

4) 68
A) 1, 2, 4, 17, 34, 68 B) 1, 2, 4, 17, 34 C) 1, 2, 4, 8, 17, 34, 68 D) 1, 2, 4, 17, 68
Answer: A

5) 99
A) 1, 3, 9, 11, 18, 33, 99 B) 1, 3, 9, 11, 33 C) 1, 3, 9, 11, 33, 99 D) 1, 3, 9, 11, 99
Answer: C

6) 42
A) 1, 7, 6, 42 B) 7, 6, 14, 42
C) 1, 2, 3, 6, 7, 14, 21, 42 D) 1, 2, 3, 6, 7, 14, 28, 42
Answer: C

7) 40
A) 1, 2, 4, 5, 8, 10, 12, 20, 40 B) 1, 2, 4, 5, 8, 10, 16, 20, 40
C) 1, 2, 4, 5, 8, 10, 40 D) 1, 2, 4, 5, 8, 10, 20, 40
Answer: D

8) 70
A) 1, 2, 5, 7, 10, 35, 70 B) 1, 2, 5, 7, 10, 14, 70
C) 1, 2, 4, 5, 7, 10, 14, 35, 70 D) 1, 2, 5, 7, 10, 14, 35, 70
Answer: D

9) 36
A) 1, 2, 3, 4, 6, 8, 9, 12, 18, 36 B) 1, 2, 3, 4, 6, 9, 12, 18, 36
C) 1, 2, 3, 4, 6, 9, 12, 36 D) 1, 2, 3, 4, 6, 8, 9, 18, 36
Answer: B

10) 11
A) 1 B) 1, 11 C) 11 D) no factors
Answer: B

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11) 37

A) 37 B) 1, 37 C) 1, 13, 37 D) no factors

Answer: B

Identify the number as prime or composite.

12) 44

A) Composite B) Prime

Answer: A

13) 13

A) Composite B) Prime

Answer: B

14) 24

A) Prime B) Composite

Answer: B

15) 203

A) Prime B) Composite

Answer: B

16) 113

A) Composite B) Prime

Answer: B

17) 1025

A) Prime B) Composite

Answer: B

Write the prime factorization of the number.

18) 10

A) $2 \cdot 2 \cdot 5$ B) $4 \cdot 4$ C) $2 \cdot 5$ D) $3 \cdot 7$

Answer: C

19) 30

A) $3 \cdot 3 \cdot 2$ B) $6 \cdot 5$ C) $2 \cdot 3 \cdot 5$ D) $2 \cdot 2 \cdot 5$

Answer: C

20) 87

A) $3 \cdot 3 \cdot 29$ B) $3 \cdot 3$ C) $3 \cdot 29$ D) $3 \cdot 27$

Answer: C

21) 938

A) $14 \cdot 67$ B) $2 \cdot 2 \cdot 67$ C) $7 \cdot 7 \cdot 67$ D) $2 \cdot 7 \cdot 67$

Answer: D

22) 28

A) $2 \cdot 2 \cdot 2 \cdot 7$ B) $2 \cdot 7 \cdot 7$ C) $2 \cdot 2 \cdot 7$ D) $4 \cdot 7$

Answer: C

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23) 63

A) $3 \cdot 3 \cdot 3 \cdot 7$ B) $3 \cdot 3 \cdot 7$ C) $3 \cdot 7$ D) $3 \cdot 7 \cdot 7$

Answer: B

24) 176

A) $2 \cdot 2 \cdot 2 \cdot 11 \cdot 11$ B) $2 \cdot 2 \cdot 2 \cdot 11$ C) $16 \cdot 11$ D) $2 \cdot 2 \cdot 2 \cdot 2 \cdot 11$

Answer: D

25) 968

A) $8 \cdot 121$ B) $2 \cdot 2 \cdot 2 \cdot 11 \cdot 11$ C) $2 \cdot 2 \cdot 11 \cdot 11 \cdot 11$ D) $2 \cdot 2 \cdot 2 \cdot 2 \cdot 11$

Answer: B

26) 5324

A) $2 \cdot 2 \cdot 2 \cdot 11 \cdot 11$ B) $2 \cdot 2 \cdot 2 \cdot 11 \cdot 11 \cdot 11$ C) $2 \cdot 2 \cdot 11 \cdot 11 \cdot 11$ D) $4 \cdot 1331$

Answer: C

27) 126

A) $2 \cdot 3 \cdot 7 \cdot 7$ B) $2 \cdot 2 \cdot 3 \cdot 7$ C) $2 \cdot 3 \cdot 7$ D) $2 \cdot 3 \cdot 3 \cdot 7$

Answer: D

28) 468

A) $2 \cdot 2 \cdot 2 \cdot 3 \cdot 13$ B) $2 \cdot 3 \cdot 3 \cdot 3 \cdot 13$ C) $2 \cdot 2 \cdot 3 \cdot 3 \cdot 13$ D) $3 \cdot 3 \cdot 3 \cdot 3 \cdot 13$

Answer: C

29) 2600

A) $2 \cdot 2 \cdot 2 \cdot 2 \cdot 5 \cdot 13$ B) $2 \cdot 2 \cdot 5 \cdot 5 \cdot 5 \cdot 13$ C) $2 \cdot 2 \cdot 2 \cdot 2 \cdot 5 \cdot 5 \cdot 13$ D) $2 \cdot 2 \cdot 2 \cdot 5 \cdot 5 \cdot 13$

Answer: D

Find the LCM of the list of numbers.

30) 2, 9

A) 162 B) 36 C) 9 D) 18

Answer: D

31) 80, 90

A) 5760 B) 7200 C) 90 D) 720

Answer: D

32) 9, 3

A) 3 B) 81 C) 27 D) 9

Answer: D

33) 6, 12

A) 12 B) 6 C) 72 D) 432

Answer: A

34) 10, 46

A) 230 B) 920 C) 10 D) 460

Answer: A

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35) 10, 35
A) 35 B) 350 C) 70 D) 140
Answer: C

36) 27, 63
A) 567 B) 189 C) 63 D) 1701
Answer: B

37) 42, 378
A) 378 B) 756 C) 42 D) 1134
Answer: A

38) 4, 7, 9
A) 36 B) 63 C) 1008 D) 252
Answer: D

39) 3, 9, 20
A) 720 B) 180 C) 60 D) 540
Answer: B

40) 3, 6, 30
A) 30 B) 90 C) 540 D) 180
Answer: A

41) 6, 14, 98
A) 8232 B) 294 C) 1176 D) 2058
Answer: B

42) 56, 63, 72
A) 3528 B) 504 C) 72 D) 28,224
Answer: B

43) 27, 24, 54
A) 216 B) 72 C) 54 D) 108
Answer: A

44) 28, 135, 150
A) 3780 B) 18,900 C) 1890 D) 1,050
Answer: B

45) 30, 80, 50
A) 1200 B) 400 C) 600 D) 240
Answer: A

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Simplify by dividing the numerator by the denominator.

46) $\frac{18}{18}$

A) $\frac{1}{18}$ B) 18 C) 1 D) 0

Answer: C

47) $\frac{63}{7}$

A) $\frac{9}{7}$ B) 9 C) $63\frac{1}{7}$ D) $\frac{1}{9}$

Answer: B

48) $\frac{30}{1}$

A) –30 B) $\frac{1}{30}$ C) 30 D) 29

Answer: C

49) $\frac{0}{8}$

A) 0 B) $\frac{1}{8}$ C) 8 D) undefined

Answer: A

50) $\frac{13}{0}$

A) 13 B) $\frac{1}{13}$ C) 0 D) undefined

Answer: D

Write the fraction as an equivalent fraction with the given denominator.

51) $\frac{5}{7}$ with a denominator of 14

A) $\frac{5}{14}$ B) $\frac{10}{14}$ C) $\frac{35}{14}$ D) $\frac{2}{14}$

Answer: B

52) $\frac{2}{11}$ with a denominator of 55

A) $\frac{2}{55}$ B) $\frac{22}{55}$ C) $\frac{5}{55}$ D) $\frac{10}{55}$

Answer: D

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53) $\frac{9}{2}$ with a denominator of 6

A) $\frac{9}{6}$ B) $\frac{3}{6}$ C) $\frac{18}{6}$ D) $\frac{27}{6}$

Answer: D

54) $\frac{2}{3}$ with a denominator of 30

A) $\frac{20}{30}$ B) $\frac{6}{30}$ C) $\frac{10}{30}$ D) $\frac{2}{30}$

Answer: A

55) $\frac{5}{13}$ with a denominator of 39

A) $\frac{65}{39}$ B) $\frac{15}{39}$ C) $\frac{195}{507}$ D) $\frac{5}{39}$

Answer: B

Simplify the fraction.

56) $\frac{2}{6}$

A) $\frac{3}{2}$ B) $\frac{2}{6}$ C) $\frac{1}{2}$ D) $\frac{1}{3}$

Answer: D

57) $\frac{24}{27}$

A) $\frac{24}{27}$ B) $\frac{8}{9}$ C) $\frac{3}{9}$ D) $\frac{8}{3}$

Answer: B

58) $\frac{55}{77}$

A) $\frac{55}{77}$ B) $\frac{11}{7}$ C) $\frac{5}{11}$ D) $\frac{5}{7}$

Answer: D

59) $\frac{23}{24}$

A) $\frac{12}{11}$ B) $\frac{1}{24}$ C) $\frac{11}{12}$ D) $\frac{23}{24}$

Answer: D

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60) $\frac{30}{80}$

A) $\frac{3}{10}$ B) $\frac{30}{80}$ C) $\frac{10}{8}$ D) $\frac{3}{8}$

Answer: D

61) $\frac{75}{100}$

A) $\frac{25}{4}$ B) $\frac{3}{25}$ C) $\frac{3}{4}$ D) $\frac{75}{100}$

Answer: C

62) $\frac{65}{80}$

A) $\frac{13}{5}$ B) $\frac{65}{80}$ C) $\frac{5}{16}$ D) $\frac{13}{16}$

Answer: D

63) $\frac{57}{48}$

A) $\frac{16}{3}$ B) $\frac{16}{19}$ C) $\frac{57}{48}$ D) $\frac{19}{16}$

Answer: D

64) $\frac{27}{36}$

A) $\frac{1}{9}$ B) $\frac{9}{4}$ C) $\frac{3}{4}$ D) $\frac{4}{3}$

Answer: C

65) $\frac{110}{143}$

A) $\frac{10}{11}$ B) $\frac{11}{13}$ C) $\frac{110}{143}$ D) $\frac{10}{13}$

Answer: D

66) $\frac{432}{622}$

A) $\frac{144}{207}$ B) $\frac{432}{622}$ C) $\frac{207}{144}$ D) $\frac{216}{311}$

Answer: D

67) $\frac{611}{987}$

A) $\frac{987}{611}$ B) $\frac{611}{987}$ C) $\frac{13}{21}$ D) $\frac{21}{13}$

Answer: C

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Multiply or divide as indicated. Write the answer in lowest terms.

68) $\frac{1}{7} \cdot \frac{3}{8}$

A) $\frac{3}{56}$ B) $\frac{4}{15}$ C) $\frac{56}{3}$ D) $\frac{21}{8}$

Answer: A

69) $\frac{10}{7} \cdot \frac{2}{5}$

A) $\frac{4}{7}$ B) $1\frac{6}{35}$ C) $\frac{2}{7}$ D) $3\frac{4}{7}$

Answer: A

70) $\frac{10}{28} \cdot \frac{14}{20}$

A) $\frac{1}{5}$ B) $\frac{1}{4}$ C) $\frac{1}{7}$ D) $\frac{28}{112}$

Answer: B

71) $6 \cdot \frac{97}{10}$

A) $58\frac{3}{5}$ B) $15\frac{1}{5}$ C) $54\frac{7}{10}$ D) $58\frac{1}{5}$

Answer: D

72) $4 \cdot \frac{43}{14}$

A) 12 B) $12\frac{2}{7}$ C) $12\frac{1}{14}$ D) $11\frac{2}{7}$

Answer: B

73) $\frac{3}{14} \div \frac{7}{16}$

A) $\frac{23}{49}$ B) $\frac{24}{49}$ C) $\frac{24}{47}$ D) $\frac{22}{49}$

Answer: B

74) $\frac{4}{17} \div \frac{3}{11}$

A) $\frac{44}{49}$ B) $\frac{44}{51}$ C) $\frac{42}{51}$ D) $\frac{43}{51}$

Answer: B

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75) $\frac{8}{13} \div \frac{3}{17}$

A) $\frac{24}{221}$ B) $\frac{221}{24}$ C) $\frac{136}{39}$ D) $\frac{11}{30}$

Answer: C

76) $\frac{20}{6} \div \frac{15}{8}$

A) $\frac{32}{18}$ B) $\frac{16}{9}$ C) $\frac{8}{3}$ D) $\frac{16}{15}$

Answer: B

77) $15 \div \frac{15}{4}$

A) $\frac{5}{2}$ B) 3 C) 4 D) 5

Answer: C

78) $\frac{18}{5} \div 6$

A) $\frac{3}{5}$ B) $\frac{2}{5}$ C) $\frac{4}{5}$ D) $\frac{3}{4}$

Answer: A

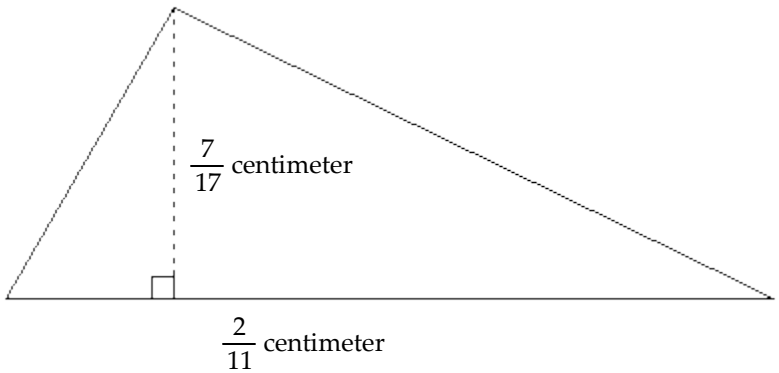
79) $\frac{10}{9} \div \frac{1}{9}$

A) $\frac{17}{2}$ B) 10 C) 11 D) 9

Answer: B

Find the area of the figure below. (The area of a rectangle is the product of its length and width. The area of a triangle is $\frac{1}{2}$ the product of its base and height.)

80)



A) $\frac{28}{187}$ sq. cm B) $\frac{7}{187}$ sq. cm C) $\frac{187}{7}$ sq. cm D) $\frac{14}{187}$ sq. cm

Answer: B

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81)



$\frac{1}{3}$ foot

$\frac{6}{13}$ foot

A) $\frac{3}{8}$ sq. ft B) $\frac{2}{13}$ sq. ft C) $\frac{6}{39}$ sq. ft D) $\frac{7}{16}$ sq. ft

Answer: B

Add or subtract as indicated. Write the answer in lowest terms.

82) $\frac{4}{9} + \frac{2}{9}$

A) $\frac{3}{4}$ B) $\frac{1}{2}$ C) $\frac{1}{3}$ D) $\frac{2}{3}$

Answer: D

83) $\frac{2}{8} - \frac{1}{8}$

A) $\frac{3}{16}$ B) $\frac{1}{2}$ C) $\frac{1}{8}$ D) $\frac{1}{4}$

Answer: C

84) $\frac{3}{28} + \frac{3}{28}$

A) $\frac{2}{13}$ B) $\frac{4}{15}$ C) $\frac{3}{14}$ D) $\frac{1}{7}$

Answer: C

85) $\frac{15}{74} + \frac{13}{74}$

A) $\frac{13}{37}$ B) $\frac{15}{38}$ C) $\frac{13}{36}$ D) $\frac{14}{37}$

Answer: D

86) $\frac{50}{68} - \frac{42}{68}$

A) $30\frac{15}{17}$ B) $\frac{2}{17}$ C) $\frac{1}{17}$ D) $1\frac{6}{17}$

Answer: B

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87) $\frac{4}{9} + \frac{2}{7}$

A) $\frac{46}{63}$ B) $\frac{50}{63}$ C) $\frac{2}{21}$ D) $\frac{3}{8}$

Answer: A

88) $\frac{4}{13} + \frac{1}{9}$

A) $\frac{5}{22}$ B) $\frac{49}{22}$ C) $\frac{49}{117}$ D) $\frac{5}{117}$

Answer: C

89) $\frac{6}{7} - \frac{1}{9}$

A) $\frac{47}{7}$ B) $\frac{5}{7}$ C) $\frac{5}{63}$ D) $\frac{47}{63}$

Answer: D

90) $\frac{1}{6} - \frac{1}{13}$

A) $\frac{7}{6}$ B) $\frac{1}{78}$ C) $\frac{7}{78}$ D) $\frac{1}{6}$

Answer: C

91) $\frac{2}{3} + \frac{1}{18}$

A) $\frac{1}{6}$ B) $\frac{20}{27}$ C) $\frac{1}{7}$ D) $\frac{13}{18}$

Answer: D

92) $\frac{9}{35} - \frac{1}{25}$

A) $\frac{8}{175}$ B) $\frac{38}{875}$ C) $\frac{44}{175}$ D) $\frac{38}{175}$

Answer: D

93) $\frac{11}{24} - \frac{7}{16}$

A) $\frac{1}{48}$ B) $\frac{1}{12}$ C) $\frac{1}{384}$ D) $\frac{5}{16}$

Answer: A

94) $\frac{3}{35} + \frac{1}{25}$

A) $\frac{4}{175}$ B) $\frac{22}{175}$ C) $\frac{11}{30}$ D) $\frac{16}{175}$

Answer: B

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95) $\frac{15}{7} - \frac{8}{35}$

A) $\frac{67}{35}$ B) $\frac{67}{245}$ C) $\frac{1}{5}$ D) $\frac{67}{7}$

Answer: A

96) $\frac{24}{5} - 4$

A) $\frac{116}{5}$ B) 4 C) $\frac{4}{5}$ D) 20

Answer: C

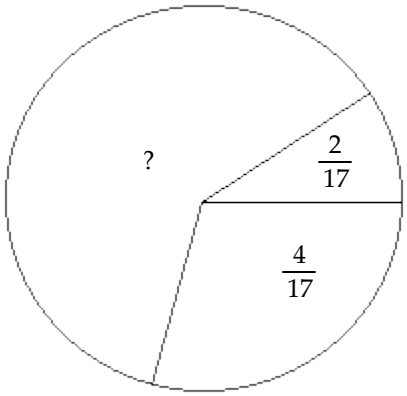
97) $9 - \frac{7}{4}$

A) $\frac{29}{4}$ B) $\frac{7}{5}$ C) $\frac{1}{2}$ D) $\frac{43}{4}$

Answer: A

The circle represents a whole, or 1. Use subtraction to determine the unknown part of the circle.

98)

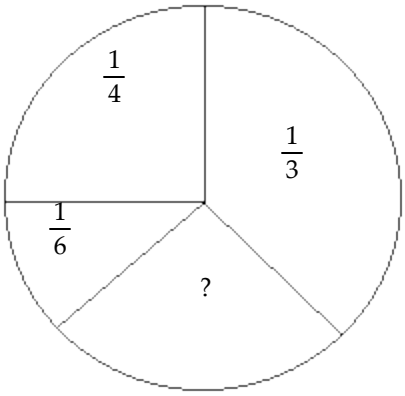


A) $\frac{15}{17}$ B) $\frac{11}{17}$ C) $\frac{6}{17}$ D) $\frac{19}{17}$

Answer: B

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99)

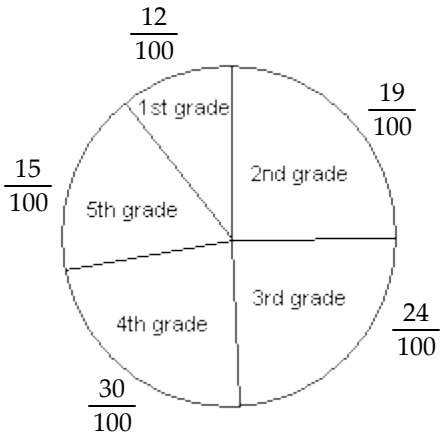


A) $\frac{1}{4}$ B) $\frac{1}{2}$ C) $\frac{1}{3}$ D) $\frac{3}{4}$

Answer: A

Solve. Write the answer in simplest form.

100) The circle graph shows the fraction of books read by grades one through five. What fraction of books was NOT read by the first and third grades?



A) $\frac{9}{25}$ B) $\frac{22}{25}$ C) $\frac{16}{25}$ D) $\frac{19}{25}$

Answer: C

101) Dee read $\frac{1}{10}$ of a book one week, $\frac{7}{36}$ the next week, and $\frac{3}{40}$ the third week. How much of the book was read?

A) $\frac{11}{1800}$ B) $\frac{133}{360}$ C) $\frac{11}{86}$ D) $\frac{11}{14400}$

Answer: B

102) The total length of a bicycle race is $\frac{10}{13}$ of a mile. Molly has completed $\frac{6}{13}$ of a mile. How much does she have left to complete?

A) $\frac{10}{13}$ mi B) $\frac{16}{13}$ mi C) $\frac{6}{13}$ mi D) $\frac{4}{13}$ mi

Answer: D

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103) Barat walked $\frac{4}{20}$ mile to his biology class, $\frac{3}{20}$ mile to his art class, $\frac{4}{20}$ mile to his calculus class, and then back to his dormitory. If he walked 1 mile altogether, how far did he walk from his calculus class to his dormitory?

A) $\frac{3}{5}$ mi B) $\frac{9}{20}$ mi C) $\frac{11}{20}$ mi D) $\frac{13}{20}$ mi

Answer: B

Perform the indicated operation. Write the answer in lowest terms.

104) $6\frac{4}{5} \cdot 2\frac{4}{7}$

A) $18\frac{2}{5}$ B) $12\frac{16}{35}$ C) $17\frac{17}{35}$ D) $1\frac{5}{7}$

Answer: C

105) $4\frac{1}{2} \cdot 3\frac{1}{3}$

A) 16 B) $12\frac{7}{6}$ C) 15 D) 18

Answer: C

106) $4\frac{3}{4} \div 2\frac{5}{6}$

A) $1\frac{24}{34}$ B) $1\frac{23}{34}$ C) $1\frac{23}{33}$ D) $2\frac{23}{34}$

Answer: B

107) $2\frac{1}{5} \div 1\frac{8}{15}$

A) $2\frac{3}{8}$ B) 1 C) $3\frac{28}{75}$ D) $1\frac{10}{23}$

Answer: D

108) $8\frac{2}{3} \div \frac{1}{3}$

A) 26 B) 10 C) $2\frac{8}{9}$ D) $24\frac{2}{3}$

Answer: A

109) $4\frac{4}{9} \cdot 3\frac{3}{8}$

A) 12 B) 10 C) 14 D) 15

Answer: D

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110) $4 \cdot 3\frac{5}{18}$

A) $12\frac{5}{18}$ B) $12\frac{1}{9}$ C) $13\frac{1}{9}$ D) 12

Answer: C

111) $4\frac{1}{4} \div 1\frac{2}{3}$

A) $2\frac{11}{20}$ B) $2\frac{3}{5}$ C) $2\frac{11}{19}$ D) $3\frac{11}{20}$

Answer: A

112) $4\frac{1}{6} \div 1\frac{5}{9}$

A) $2\frac{19}{27}$ B) $3\frac{19}{28}$ C) $2\frac{20}{28}$ D) $2\frac{19}{28}$

Answer: D

113) $40 \div 1\frac{2}{3}$

A) 23 B) 25 C) $22\frac{1}{2}$ D) 24

Answer: D

114) $2\frac{2}{9} \div 10$

A) $\frac{1}{3}$ B) $\frac{1}{9}$ C) $\frac{1}{4}$ D) $\frac{2}{9}$

Answer: D

115) $3\frac{1}{2} + 11\frac{3}{7}$

A) $15\frac{13}{14}$ B) $3\frac{13}{14}$ C) $13\frac{13}{14}$ D) $14\frac{13}{14}$

Answer: D

116) $6\frac{4}{9} + 11\frac{1}{3}$

A) $17\frac{7}{9}$ B) $18\frac{7}{9}$ C) $16\frac{7}{9}$ D) $6\frac{7}{9}$

Answer: A

117) $13\frac{5}{8} - 6\frac{7}{8}$

A) $6\frac{2}{4}$ B) $19\frac{3}{4}$ C) $18\frac{3}{4}$ D) $6\frac{3}{4}$

Answer: D

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118) $1\frac{7}{8} + 1\frac{3}{7}$

A) $1\frac{4}{7}$ B) $\frac{4}{5}$ C) $3\frac{17}{56}$ D) $1\frac{17}{56}$

Answer: C

119) $8\frac{2}{15} - 3\frac{1}{20}$

A) $5\frac{1}{12}$ B) $4\frac{1}{12}$ C) $5\frac{1}{60}$ D) $5\frac{7}{60}$

Answer: A

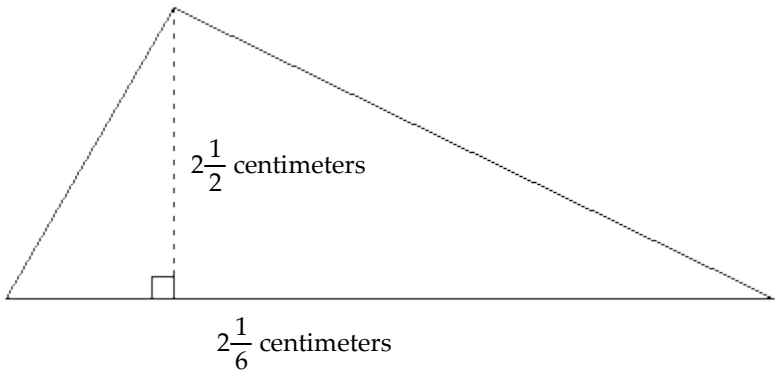
120) $5\frac{9}{25} + 6\frac{9}{10}$

A) $12\frac{2}{25}$ B) $12\frac{13}{50}$ C) $11\frac{9}{25}$ D) $11\frac{27}{50}$

Answer: B

Find the area of the figure below. (The area of a rectangle is the product of its length and width. The area of a triangle is $\frac{1}{2}$ the product of its base and height.)

121)



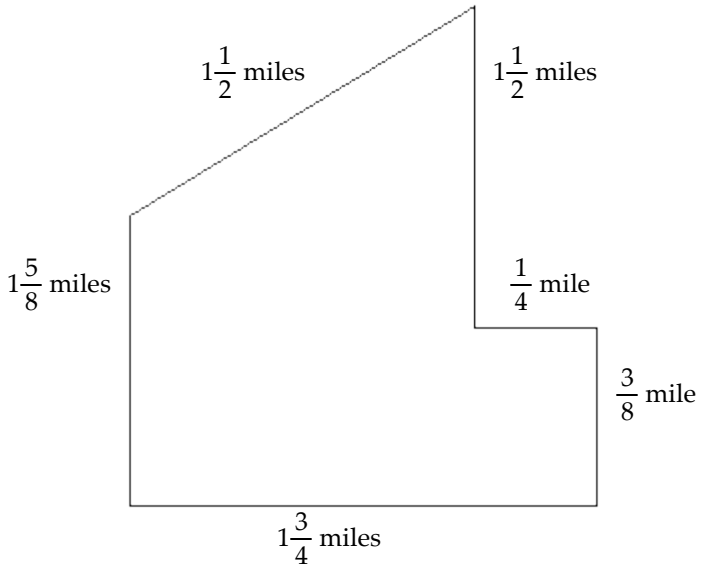
A) $2\frac{17}{24}$ sq. cm B) $5\frac{5}{12}$ sq. cm C) $4\frac{2}{3}$ sq. cm D) $10\frac{5}{6}$ sq. cm

Answer: A

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The perimeter of a plane figure is the total distance around the figure. Find the perimeter of the figure.

122)



A) $5\frac{1}{2}$ miles B) $5\frac{3}{4}$ miles C) 7 miles D) $3\frac{3}{4}$ miles

Answer: C

Solve. Write the answer in simplest form.

123) Jeffrey has two packages. One weighs $3\frac{1}{2}$ ounces, and the other weighs $\frac{5}{8}$ ounces. What is the total weight of the two packages?

A) $4\frac{1}{8}$ ounces B) $2\frac{3}{16}$ ounces C) $1\frac{1}{5}$ ounces D) $4\frac{3}{5}$ ounces

Answer: A

124) Last week, Samantha ran 14 miles. This week, she ran $12\frac{4}{5}$ miles. How much more did she run last week?

A) $26\frac{4}{5}$ miles B) $1\frac{5}{16}$ miles C) $1\frac{1}{5}$ miles D) $15\frac{3}{5}$ miles

Answer: C

Write the decimal as a fraction. Do not simplify.

125) 0.8

A) $\frac{8}{10}$ B) $\frac{10}{8}$ C) $\frac{8}{100}$ D) $\frac{1}{8}$

Answer: A

126) 0.42

A) $\frac{42}{1000}$ B) $\frac{42}{100}$ C) $\frac{1}{42}$ D) $\frac{100}{42}$

Answer: B

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127) 0.772

A) $\frac{772}{1000}$ B) $\frac{100}{772}$ C) $\frac{1}{772}$ D) $\frac{772}{10000}$

Answer: A

128) 9.55

A) $\frac{955}{100}$ B) $\frac{95.5}{10}$ C) $\frac{955}{10}$ D) $\frac{955}{1000}$

Answer: A

129) 847.6

A) $\frac{8476}{100}$ B) $\frac{84.76}{10}$ C) $\frac{8476}{1000}$ D) $\frac{8476}{10}$

Answer: D

Add or subtract as indicated.

130) 8.3 + 4.74

A) 12.77 B) 12.374 C) 5.57 D) 13.04

Answer: D

131) 37.6 + 3 + 0.0234

A) 46.164 B) 45.6564 C) 45.93234 D) 40.6234

Answer: D

132) 7.3 – 1.4

A) 7.16 B) 5.9 C) 6.26 D) 5.63

Answer: B

133) 42 – 3.25

A) 38.75 B) 38.975 C) 0.95 D) 41.675

Answer: A

134) 59.15 + 73.08 + 37.649

A) 169.889 B) 170.879 C) 169.979 D) 169.879

Answer: D

135) 261.2 + 0.38 + 85.51 + 70.2

A) 417.3 B) 417.39 C) 417.29 D) 418.29

Answer: C

136) 79.95 + 8.471 + 2.123 + 6.39

A) 96.934 B) 96.944 C) 97.934 D) 97.034

Answer: A

137) 8.685 – 7.708

A) 15.393 B) 0.977 C) 1.077 D) 16.393

Answer: B

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138) 13.4 – 12.831

A) 0.569 B) 0.669 C) 27.231 D) 26.231

Answer: A

139) 18.373 – 6.643

A) 25.016 B) 11.830 C) 11.730 D) 11.630

Answer: C

140) 22 – 0.459

A) 21.641 B) 21.541 C) 22.459 D) 21.041

Answer: B

141)

$$\begin{array}{r} 3.82 \\ 1.74 \\ +\ 19.63 \\ \hline \end{array}$$

A) 25.19 B) 24.29 C) 25.29 D) 24.19

Answer: A

142)

$$\begin{array}{r} 308.051 \\ 11.303 \\ +\ 9.925 \\ \hline \end{array}$$

A) 329.389 B) 329.379 C) 329.279 D) 329.289

Answer: C

143)

$$\begin{array}{r} 3.538 \\ 12.459 \\ +\ 248.28 \\ \hline \end{array}$$

A) 264.277 B) 264.167 C) 264.177 D) 264.267

Answer: A

144)

$$\begin{array}{r} 50.0037 \\ 1.0416 \\ +\ 7.4 \\ \hline \end{array}$$

A) 62.40786 B) 58.4453 C) 62.8197 D) 62.44197

Answer: B

145)

$$\begin{array}{r} 5.66 \\ -\ 3.38 \\ \hline \end{array}$$

A) 3 B) 2.38 C) 2.28 D) 3.28

Answer: C

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146)
$$\begin{array}{r} 6.4 \\ -\ 5.763 \\ \hline \end{array}$$

A) 0.763 B) 2.000 C) 0.637 D) 1.637

Answer: C

147)
$$\begin{array}{r} 27.35 \\ -\ 14.377 \\ \hline \end{array}$$

A) 12.983 B) 12.973 C) 14.000 D) 12.987

Answer: B

148)
$$\begin{array}{r} 529.8 \\ -\ 26.47 \\ \hline \end{array}$$

A) 527.153 B) 269.33 C) 503.753 D) 503.33

Answer: D

Multiply or divide as indicated.

149)
$$\begin{array}{r} 0.7 \\ \times\ 0.6 \\ \hline \end{array}$$

A) 0.0042 B) 4.2 C) 0.042 D) 0.42

Answer: D

150)
$$\begin{array}{r} 0.557 \\ \times\ 9.9 \\ \hline \end{array}$$

A) 10 B) 5 C) 10.457 D) 5.5143

Answer: D

151)
$$\begin{array}{r} 59.8 \\ \times\ 6.5 \\ \hline \end{array}$$

A) 388.7 B) 389.8 C) 66.3 D) 388.81

Answer: A

152)
$$\begin{array}{r} 11.70 \\ \times\ \ 0.0058 \\ \hline \end{array}$$

A) 0.06786 B) 0.05786 C) 0.16786 D) 0.07786

Answer: A

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153)
$$\begin{array}{r} 0.02 \\ \times\ 0.9 \\ \hline \end{array}$$

A) 0.0018 B) 0.018 C) 0.18 D) 1.8

Answer: B

154)
$$\begin{array}{r} 0.207 \\ \times\ 0.4 \\ \hline \end{array}$$

A) 0.0828 B) 0.000828 C) 0.828 D) 8.28

Answer: A

155)
$$\begin{array}{r} 0.0098 \\ \times\ 4.9 \\ \hline \end{array}$$

A) 0.004802 B) 0.4802 C) 0.0004802 D) 0.04802

Answer: D

156)
$$\begin{array}{r} 6.3 \\ \times\ 1000 \\ \hline \end{array}$$

A) 6.300 B) 6300 C) 63,000 D) 0.0063

Answer: B

157)
$$\begin{array}{r} 835.70 \\ \times\ 10 \\ \hline \end{array}$$

A) 83,570 B) 835.700 C) 8357 D) 83.57

Answer: C

158)
$$\begin{array}{r} 0.7247 \\ \times\ 100 \\ \hline \end{array}$$

A) 0.724700 B) 724.7 C) 7.247 D) 72.47

Answer: D

159)
$$\begin{array}{r} 34.008 \\ \times\ \ 4.74 \\ \hline \end{array}$$

A) 161.163792 B) 161.5392 C) 1611.9792 D) 161.19792

Answer: D

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160) $9\overline{)4.5}$

A) 0.5 B) 5 C) 1.5 D) 15

Answer: A

161) $17\overline{)1.751}$

A) 1.03 B) 1.103 C) 11.03 D) 0.103

Answer: D

162) $0.01\overline{)0.55}$

A) 5.5 B) 56 C) 55 D) 44

Answer: C

163) $2.4\overline{)2.64}$

A) 1.1 B) 11 C) 2.1 D) 0.11

Answer: A

164) $0.3\overline{)18}$

A) 0.0167 B) 60 C) 6 D) 600

Answer: B

165) $0.46\overline{)3.726}$

A) 8.1 B) 0.81 C) 81 D) 0.123

Answer: A

166) $0.042\overline{)27.72}$

A) 66 B) 660 C) 0.00015 D) 6600

Answer: B

Round the decimal to the given place value.

167) 7.163, nearest hundredth

A) 7.17 B) 7.15 C) 7.16 D) 7.163

Answer: C

168) 31.2289, nearest hundredth

A) 31.2289 B) 31.13 C) 31.23 D) 31.33

Answer: C

169) 5.45, nearest tenth

A) 5.45 B) 5.4 C) 5.6 D) 5.5

Answer: D

170) 6.286, nearest tenth

A) 6.2 B) 6.3 C) 6.4 D) 6.286

Answer: B

171) 59.8528, nearest thousandth

A) 59.8528 B) 59.843 C) 59.863 D) 59.853

Answer: D

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172) 1.53901, nearest thousandth

A) 1.439 B) 1.53901 C) 1.639 D) 1.539

Answer: D

173) 0.4341, nearest hundredth

A) 0.434 B) 0.43 C) 0.44 D) 0.4341

Answer: B

174) 3364.243, nearest tenth

A) 3364.243 B) 3364.3 C) 3364.24 D) 3364.2

Answer: D

175) 0.05546, nearest hundredth

A) 0.055 B) 0.05 C) 0.1 D) 0.06

Answer: D

176) 0.9984, nearest hundredth

A) 0.99 B) 1.00 C) 1.10 D) 1.90

Answer: B

Write the fraction as a decimal. If the decimal is a repeating decimal, write using the bar notation and then round to the nearest hundredth.

177) $\frac{1}{4}$

A) 0.3 B) 0.25 C) 0.025 D) 0.225

Answer: B

178) $\frac{7}{25}$

A) 0.028 B) 0.48 C) 0.255 D) 0.28

Answer: D

179) $\frac{3}{16}$

A) $0.1875 \approx 0.19$ B) $0.1\overline{875} \approx 0.19$ C) 0.1875 D) $0.\overline{1875} \approx 0.19$

Answer: C

180) $\frac{55}{16}$

A) $3.4375 \approx 3.44$ B) $3.4\overline{375} \approx 3.44$ C) 3.4375 D) $3.43\overline{75} \approx 3.44$

Answer: C

181) $\frac{5}{20}$

A) $0.\overline{25} \approx 0.25$ B) $0.25 \approx 0.26$ C) 0.25 D) $0.\overline{255} \approx 0.26$

Answer: C

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182) $\frac{75}{20}$

A) $3.7\overline{5} \approx 3.76$ B) 3.75 C) $3.\overline{755} \approx 3.76$ D) $3.\overline{75} \approx 3.75$

Answer: B

183) $\frac{1}{15}$

A) $0.\overline{066} \approx 0.07$ B) $0.0\overline{6} \approx 0.07$ C) $0.\overline{06} \approx 0.07$ D) 0.06

Answer: B

184) $\frac{1}{11}$

A) 0.09 B) $0.\overline{090} \approx 0.09$ C) $0.\overline{09} \approx 0.09$ D) $0.0\overline{9} \approx 0.10$

Answer: C

185) $\frac{2}{3}$

A) 0.6 B) $0.\overline{6} \approx 0.67$ C) 0.66 D) $0.\overline{60} \approx 0.61$

Answer: B

186) $\frac{23}{6}$

A) $3.\overline{83} \approx 3.84$ B) $3.8\overline{6} \approx 3.87$ C) $3.8\overline{3} \approx 3.83$ D) 3.83

Answer: C

187) $\frac{25}{6}$

A) $4.\overline{16} \approx 4.16$ B) $4.1\overline{6} \approx 4.17$ C) $4.1\overline{3} \approx 4.13$ D) 4.16

Answer: B

188) $\frac{8}{9}$

A) $0.\overline{8} \approx 0.89$ B) 0.88 C) $0.\overline{8} \approx 0.88$ D) $0.\overline{80} \approx 0.81$

Answer: A

Solve.

189) A survey taken in an elementary school revealed that $\frac{23}{109}$ of the first–graders did not eat or drink a milk product at least one time every day of the week. Write this amount as a decimal, rounding to the nearest hundredth.

A) 0.19 B) 0.21 C) 4.74 D) 0.79

Answer: B

190) An organization surveys its members and finds that $\frac{16}{37}$ of them have children. Write this fraction as a decimal. Round to the nearest thousandth, if necessary.

A) 0.331 B) 0.532 C) 0.231 D) 0.432

Answer: D

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191) Prof. Al–Badul calculated that $\frac{1}{2}$ of her students passed their college algebra exam. Write this fraction as a decimal, rounding to the nearest thousandth if necessary.

A) 20 B) 2 C) 0.5 D) 5

Answer: C

Write the percent as a decimal.

192) 74%

A) 0.074 B) 7.4 C) 0.74 D) 74.0

Answer: C

193) 2%

A) 2 B) 20.0 C) 0.2 D) 0.02

Answer: D

194) 700%

A) 700 B) 0.7 C) 0.07 D) 7

Answer: D

195) 10%

A) 0.01 B) 1 C) 10.0 D) 0.1

Answer: D

196) 76%

A) 76 B) 0.76 C) 0.076 D) 7.6

Answer: B

197) 45.5%

A) 0.455 B) 45.5 C) 4.55 D) 0.0455

Answer: A

198) 8.4%

A) 8.4 B) 0.084 C) 84.0 D) 0.84

Answer: B

199) $57\frac{1}{2}$%

A) 57.5 B) 0.0575 C) 5.75 D) 0.575

Answer: D

200) 69.74%

A) 0.6974 B) 0.06974 C) 6.974 D) 69.74

Answer: A

201) 20%

A) 0.02 B) 2 C) 0.09 D) 0.2

Answer: D

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202) 0.03%

A) 0.0003 B) 0.0013 C) 0.03 D) 0.003

Answer: A

203) 0.045%

A) 0.00045 B) 4.5 C) 0.000045 D) 0.0045

Answer: A

204) 0.1%

A) 0.002 B) 0.1 C) 0.001 D) 0.01

Answer: C

205) In the last election Mr. Smith received 3.7% of the vote. Write this percent as a decimal.

A) 3.7 B) 0.037 C) 0.37 D) 37

Answer: B

206) Video games made up 56.4% of the total revenue for a small specialty store. Write this percent as a decimal.

A) 0.0564 B) 0.564 C) 5.64 D) 56.4

Answer: B

207) 57% of students at a small college lived at home while attending classes. Write this percent as a decimal.

A) 5.7 B) 57.0 C) 0.57 D) 0.057

Answer: C

Write the decimal as a percent.

208) 5.9

A) 59% B) 0.59% C) 0.0059% D) 590%

Answer: D

209) 17

A) 1.7% B) 170% C) 0.17% D) 1700%

Answer: D

210) 0.001

A) 0.001% B) 0.01% C) 0.1% D) 1%

Answer: C

211) 0.15

A) 1.5% B) 150% C) 15% D) 0.015%

Answer: C

212) 0.015

A) 1.5% B) 0.15% C) 15% D) 0.015%

Answer: A

213) 0.2923

A) 0.2923% B) 29.23% C) 2.923% D) 2923%

Answer: B

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214) 8.00
A) 80% B) 800% C) 0.08% D) 0.8%
Answer: B

215) 0.7
A) 70% B) 0.7% C) 700% D) 0.07%
Answer: A

216) 0.049
A) 4.9% B) 49% C) 0.0049% D) 0.049%
Answer: A

217) 0.00106
A) 0.106% B) 0.053% C) 0.0106% D) 0.000106%
Answer: A

218) 8
A) 400% B) 0.8% C) 800% D) 0.08%
Answer: C

219) 0.00014
A) 0.014% B) 0.14% C) 0.0014% D) 0.000014%
Answer: A

220) 0.09
A) 9% B) 0.9% C) 0.009 D) 0.09%
Answer: A

221) Last year Nola spent 0.2013 of her income for insurance. Write this decimal as a percent.
A) 0.002013% B) 2.013% C) 0.02013% D) 20.13%
Answer: D

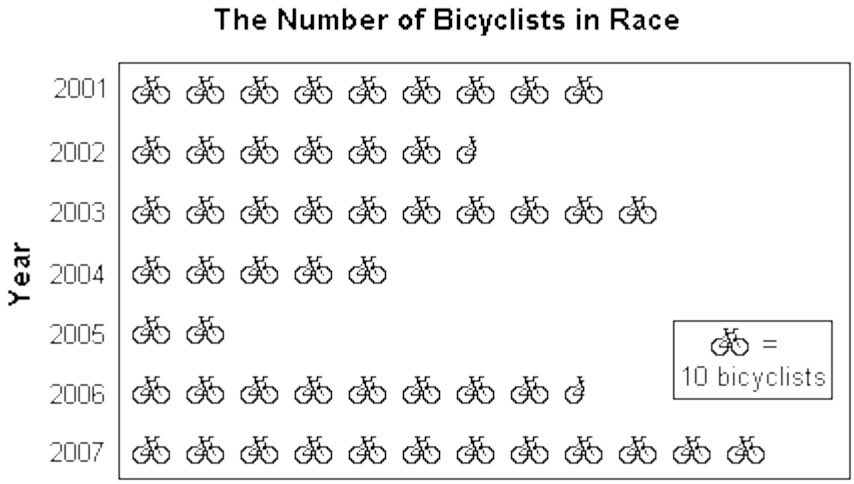
222) Mario saved 0.5 of what he earned over the summer. Write this decimal as a percent.
A) 50% B) 0.05% C) 0.5% D) 500%
Answer: A

223) In a large city, 0.657 of the budget went toward city workers' salaries. Write this decimal as a percent.
A) 0.657% B) 0.0657% C) 657% D) 65.7%
Answer: D

224) In an extended care facility, 0.1438 of the residents require a particular heart medication. Write this decimal as a percent.
A) 14.38% B) 0.1438% C) 1438% D) 1.438%
Answer: A

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The pictograph shows the number of bicyclists who participated in the Labor Day weekend bicycle race for the years indicated.



225) In what year did the least number of cyclists participate?
A) 2004 B) 2007 C) 2005 D) 2003
Answer: C

226) What was the least number of cyclists to participate in any one year?
A) 120 cyclists B) 50 cyclists C) 20 cyclists D) 100 cyclists
Answer: C

227) How many cyclists participated in 2002?
A) 65 cyclists B) 20 cyclists C) 50 cyclists D) 100 cyclists
Answer: A

228) In what year did 50 cyclists participate?
A) 2005 B) 2004 C) 2006 D) 2007
Answer: B

229) In what year(s) was there a decline in the number of cyclists who participated in the race?
A) 2002, 2003, 2005, 2006 B) 2002, 2004
C) 2002, 2004, 2005 D) 2003, 2006, 2007
Answer: C

230) In what year(s) was there an increase in the number of cyclists who participated in the race?
A) 2003, 2006, 2007 B) 2002, 2004, 2005 C) 2002, 2003, 2007 D) 2001, 2003, 2007
Answer: A

231) What was the average number of cyclists who participated in the race? If necessary, round to the nearest whole number.
A) 88 cyclists B) 66 cyclists C) 85 cyclists D) 76 cyclists
Answer: D

232) What was the amount of increase in the number of cyclists from 2005 to 2006?
A) 70 B) 65 C) 60 D) 105
Answer: B

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233) What was the amount of decrease in the number of cyclists from 2001 to 2002?

A) 15 B) 35 C) 20 D) 25

Answer: D

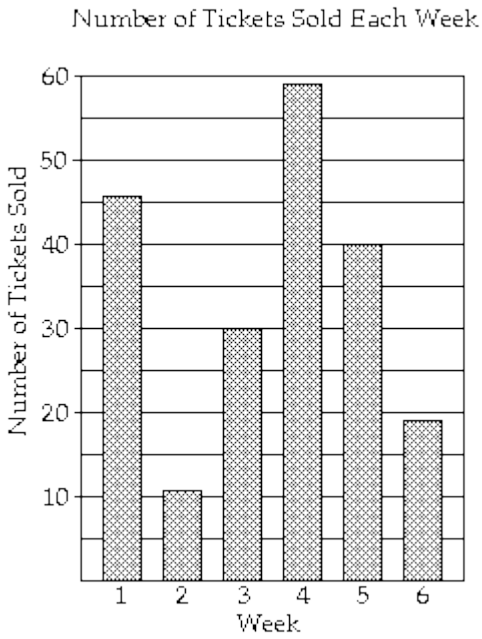
234) In what years did more than 70 cyclists participate?

A) 2001, 2002, 2003, 2006, 2007 B) 2003, 2006, 2007

C) 2003, 2007 D) 2001, 2003, 2006, 2007

Answer: D

The bar graph shows the number of tickets sold each week by the garden club for their annual flower show.



235) During which week did the garden club sell the most tickets?

A) week 2 B) week 5 C) week 1 D) week 4

Answer: D

236) During which week did the garden club sell the fewest tickets?

A) week 4 B) week 6 C) week 5 D) week 2

Answer: D

237) How many tickets were sold during week 1?

A) 11 tickets B) 30 tickets C) 59 tickets D) 46 tickets

Answer: D

238) During which week were 11 tickets sold?

A) week 2 B) week 4 C) week 3 D) week 5

Answer: A

239) How many more tickets were sold during week 4 than week 1?

A) 105 tickets B) 23 tickets C) 13 tickets D) 18 tickets

Answer: C

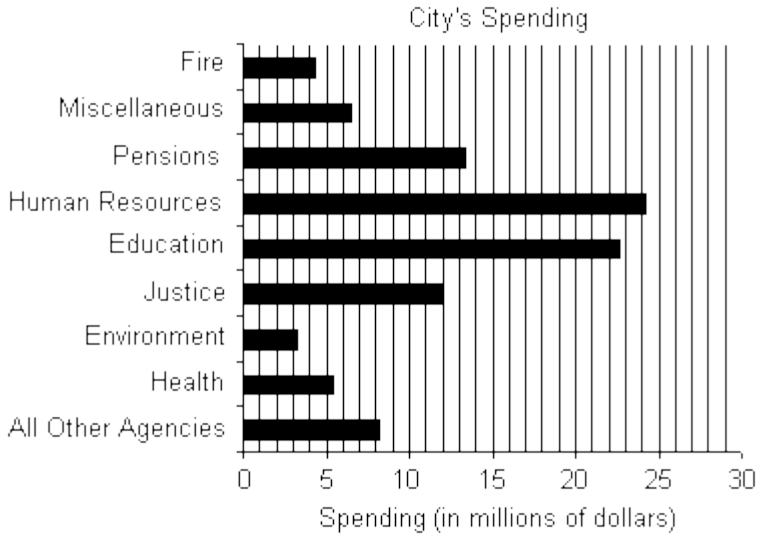
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240) How many tickets were sold in all?

A) 195 tickets B) 105 tickets C) 205 tickets D) 215 tickets

Answer: C

The bar graph shows the expenditures of one city government in a recent year.



241) Name the agency with the smallest spending and estimate this value.

A) Environment; $3.2 million B) Human Resources; $24.2 million

C) All Other Agencies; $8.2 million D) Health; $5.4 million

Answer: A

242) Name the agency whose spending is between $4 million and $5 million and estimate its value.

A) Fire; $4.3 million B) Health; $4.3 million C) Fire; $5.4 million D) Health; $5.4 million

Answer: A

243) How much more is spent on Pensions than on Health?

A) $6.4 million B) $9.4 million C) $8 million D) $10.7 million

Answer: C

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SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

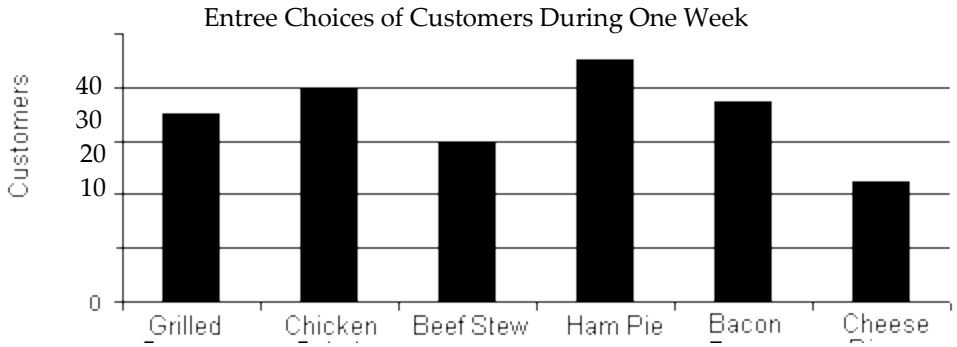
Use the information given to draw a bar graph. Clearly label the bars.

244) Make a vertical bar graph to illustrate the data in the table below.

Entree Choices of Customers During One Week

Entree	Number of Customers
Grilled Salmon	35
Chicken Salad	40
Beef Stew	30
Ham Pie	45
Bacon Burger	38
Cheese Pizza	22

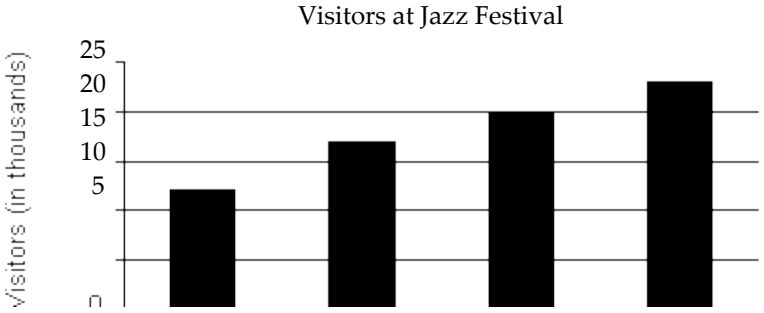
Answer: Answers may vary. The following is a possible answer.



245) The following table shows the number of visitors at a jazz festival in various years. Make a vertical bar graph to illustrate the data.

Year	Visitors (in thousands)
1981	12
1991	17
2001	20
2003	23

Answer: Answers may vary. The following is a possible answer.

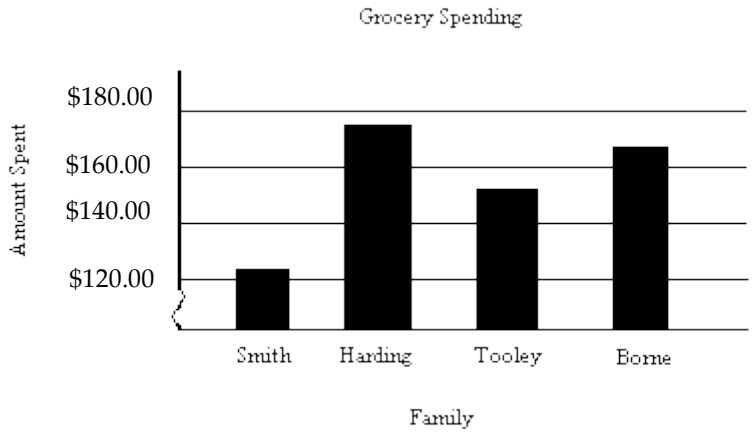


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246) The following table shows the average amount spent per week on groceries by four different families. Make a vertical bar graph to illustrate the data.

Family	Amount Spent on Groceries
Smith	$123.25
Harding	$176.00
Tooley	$151.75
Borne	$168.00

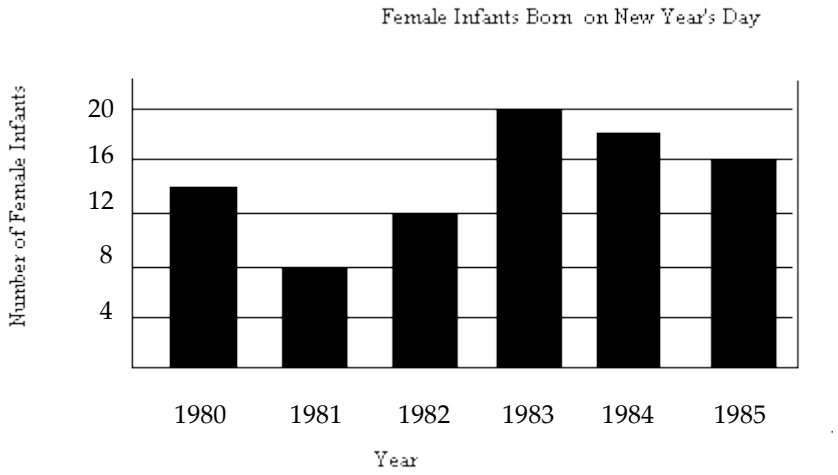
Answer: Answers may vary. The following is a possible answer.



247) The following table shows the number of female infants born in a certain city on New Year's Day in various years. Make a vertical bar graph to illustrate the data.

Year	No. of Female Infants Born New Year's Day
1980	14
1981	8
1982	12
1983	20
1984	18
1985	16

Answer: Answers may vary. The following is a possible answer.

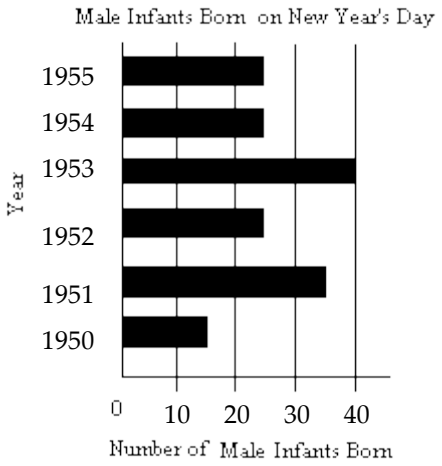


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248) The following table shows the number of male infants born in a certain city on New Year's Day in various years. Make a horizontal bar graph to illustrate the data.

Year	No. of Male Infants Born New Year's Day
1950	15
1951	35
1952	25
1953	40
1954	25
1955	25

Answer: Answers may vary. The following is a possible answer.

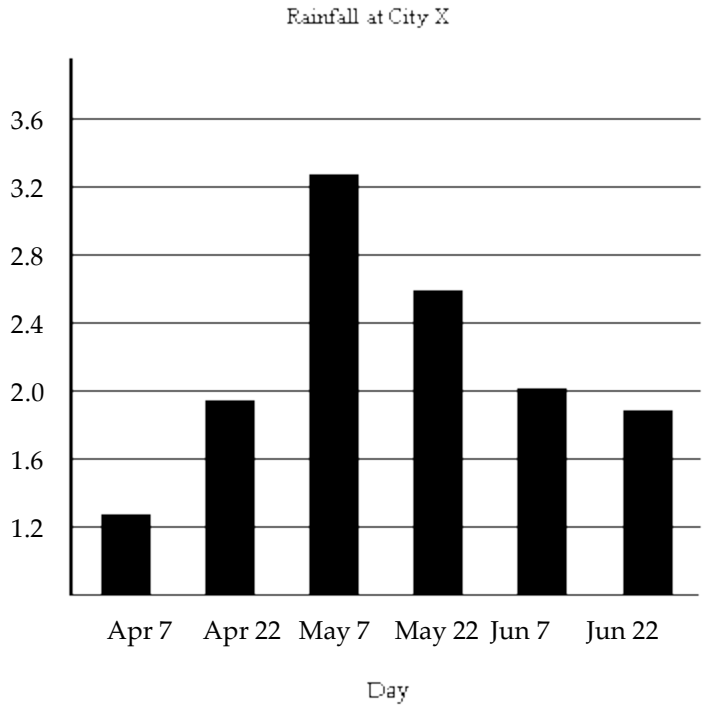


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249) The following table shows the number of inches of rainfall measured at City X during various days. Make a vertical bar graph to illustrate the data.

Day	Inches of Rainfall
April 7	1.26
April 22	1.94
May 7	3.26
May 22	2.54
June 7	2.02
June 22	1.86

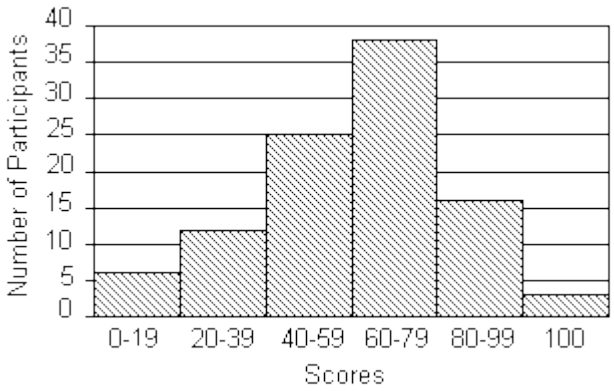
Answer: Answers may vary. The following is a possible answer.



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MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

The histogram shows the scores of each participant in a game from a total of 100 participants.



250) How many participants scored 100?

A) 25 participants B) 6 participants C) 3 participants D) 12 participants

Answer: C

251) How many participants scored fewer than 80?

A) 97 participants B) 100 participants C) 3 participants D) 81 participants

Answer: D

252) How many more participants scored 40–59 than 20–39?

A) 9 participants B) 22 participants C) 13 participants D) 10 participants

Answer: C

253) What is the ratio of participants who score 80–99 to the total number of participants?

A) $\frac{25}{4}$ B) $\frac{3}{100}$ C) $\frac{3}{50}$ D) $\frac{4}{25}$

Answer: D

254) The greatest number of participants is within which category?

A) 60–69 B) 80–99 C) 60–79 D) 40–59

Answer: C

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

The list shows the scores for a basketball team. Use the list to complete the frequency distribution table and construct a histogram.

255)

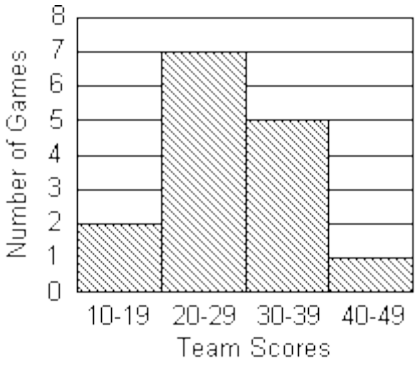
20	21	15	23	28
31	32	30	19	32
34	42	29	23	20

Class Intervals (Scores)	Tally	Class Frequency (Number of Games)
10–19		
20–29		
30–39		
40–49		

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Answer:

Class Intervals (Scores)	Tally	Class Frequency (Number of Games)
10–19	II	2
20–29	𝍸 II	7
30–39	𝍸	5
40–49	I	1



Twenty teenagers were asked to give their current savings account balances. Use the balances shown in the list to complete the frequency distribution table and construct a histogram.

256)

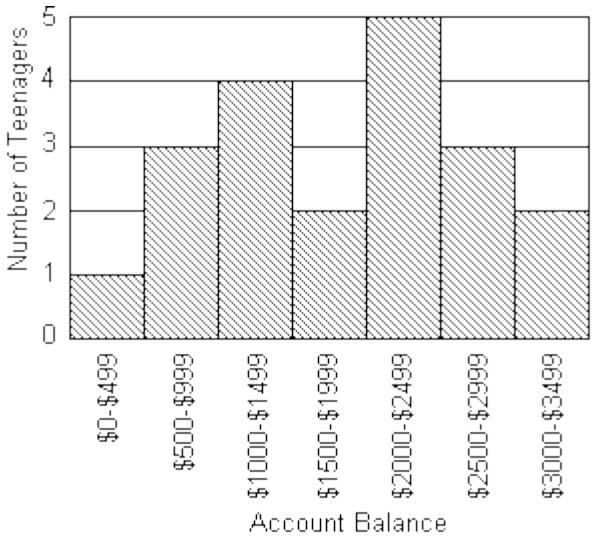
$20	$1004	$692	$3009	$3489
$2159	$900	$2780	$2148	$1234
$1049	$754	$2377	$2289	$2550
$2510	$1750	$1356	$1655	$2254

Class Intervals (Account Balances)	Tally	Class Frequency (Number of Teenagers)
$0–$499		
$500–$999		
$1000–$1499		
$1500–$1999		
$2000–$2499		
$2500–$2999		
$3000–$3499		

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Answer:

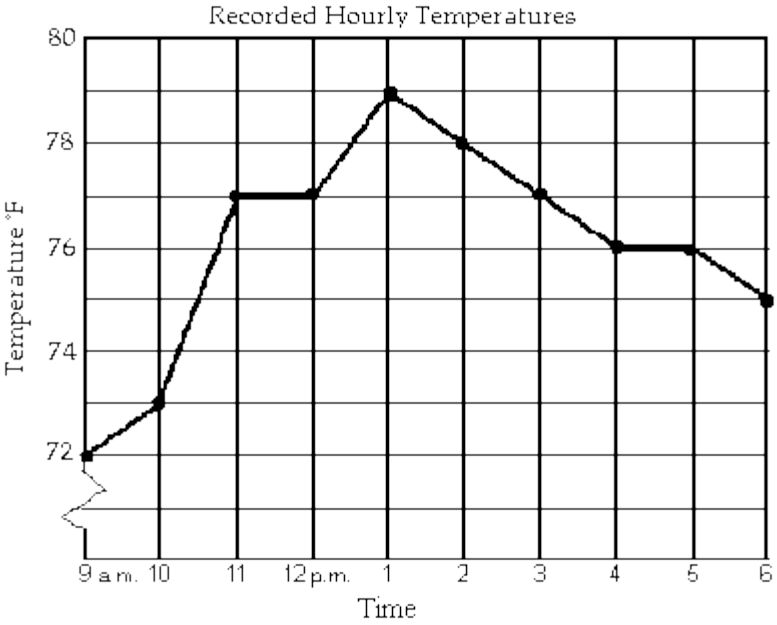
Class Intervals (Account Balances)	Tally	Class Frequency (Number of Teenagers)
$0-$499	I	1
$500-$999	III	3
$1000-$1499	IIII	4
$1500-$1999	II	2
$2000-$2499	⧻	5
$2500-$2999	III	3
$3000-$3499	II	2



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MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

The line graph shows the recorded hourly temperatures in degrees Fahrenheit at an airport.



257) At what time was the temperature the highest?
A) 5 p.m. B) 2 p.m. C) 11 a.m. D) 1 p.m.
Answer: D

258) At what time was the temperature its lowest?
A) 6 p.m. B) 1 p.m. C) 9 a.m. D) 4 p.m.
Answer: C

259) What temperature was recorded at 2 p.m.?
A) 79 ° F B) 76 ° F C) 78 ° F D) 80 ° F
Answer: C

260) During which hour did the temperature increase the most?
A) 1 p.m. to 2 p.m. B) 12 p.m. to 1 p.m. C) 10 a.m. to 11 a.m. D) 9 a.m. to 10 a.m.
Answer: C

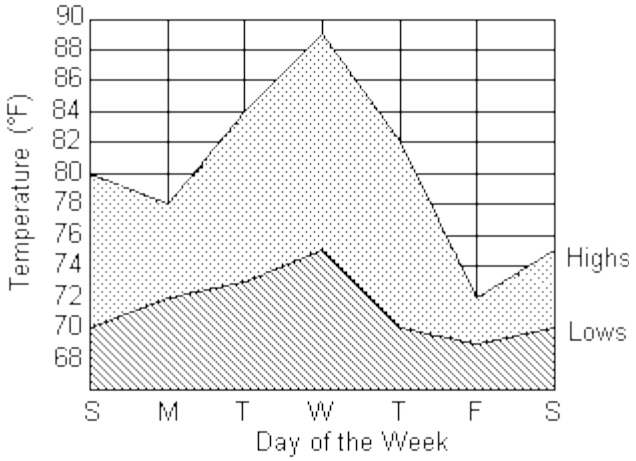
261) At what time was the temperature 73°?
A) 5 p.m. B) 10 a.m. and 11 a.m. C) 9 a.m. D) 10 a.m.
Answer: D

262) During which two hour period did the temperature increase the most?
A) 12 p.m. to 2 p.m. B) 10 a.m. to 12 p.m. C) 9 a.m. to 11 a.m. D) 10 a.m. to 11 a.m.
Answer: C

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SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

The double–line graph shows temperature highs and lows for a week.



263) What was the high temperature reading on Tuesday?

Answer: 84°F

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

264) What day was the temperature the lowest? What was this low temperature?

A) Friday; 69°F B) Thursday; 70°F C) Saturday; 70°F D) Friday; 72°F

Answer: A

265) What day was the temperature the highest? What was this high temperature?

A) Sunday; 80°F B) Wednesday; 90°F C) Wednesday; 75°F D) Wednesday; 89°F

Answer: D

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

266) On what day of the week was the difference between the high temperature and the low temperature the least? What was this difference in temperature?

Answer: Friday; 3°F

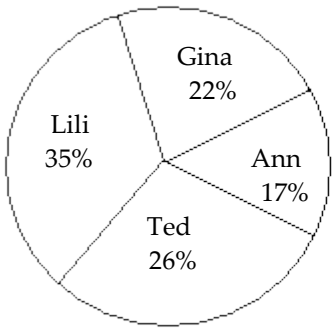
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MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

The circle graph shows the results of the student council presidential election and the percent of the vote each person received.

267)

Student Council President



500 total votes

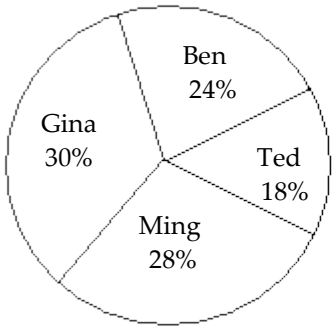
Who got the most votes?

A) Ted B) Gina C) Ann D) Lili

Answer: D

268)

Student Council President



400 total votes

Who got the fewest votes?

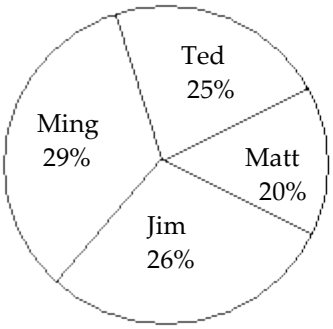
A) Ted B) Gina C) Ming D) Ben

Answer: A

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269)

Student Council President



600 total votes

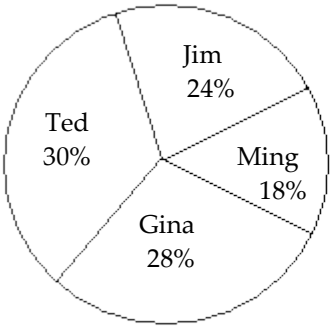
How many votes did Ming get?

A) 150 B) 156 C) 174 D) 120

Answer: C

270)

Student Council President



500 total votes

Find the ratio of Ming's votes to Jim's votes.

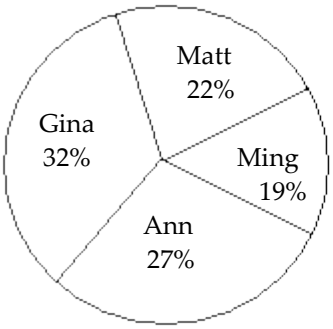
A) $\frac{3}{5}$ B) $\frac{9}{50}$ C) $\frac{3}{4}$ D) $\frac{4}{3}$

Answer: C

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271)

Student Council President



300 total votes

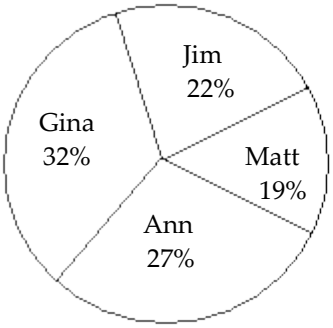
Find the ratio of Gina's votes to total votes cast.

A) $\frac{17}{8}$ B) $\frac{8}{17}$ C) $\frac{8}{25}$ D) $\frac{25}{8}$

Answer: C

272)

Student Council President



700 total votes

Who received the second largest number of votes?

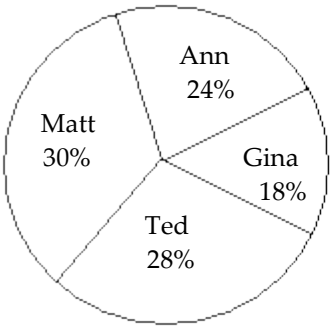
A) Jim B) Ann C) Gina D) Matt

Answer: B

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273)

Student Council President



700 total votes

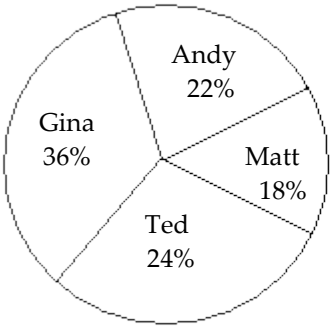
What percent of the votes did Gina and Ann receive together?

A) 58% B) 18% C) 42% D) 24%

Answer: C

274)

Student Council President



500 total votes

What percent of the votes did Andy NOT get?

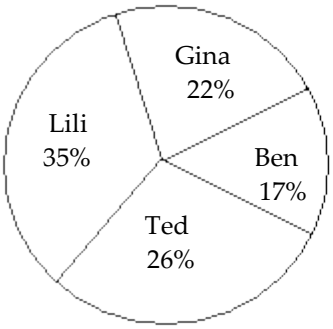
A) 76% B) 22% C) 64% D) 78%

Answer: D

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275)

Student Council President



500 total votes

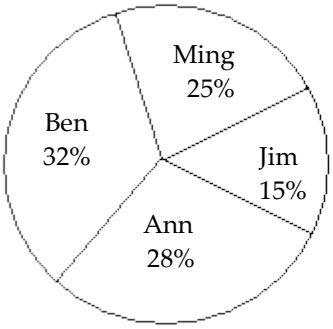
What percent of the votes did Ben NOT get?

A) 83% B) 74% C) 17% D) 65%

Answer: A

276)

Student Council President



700 total votes

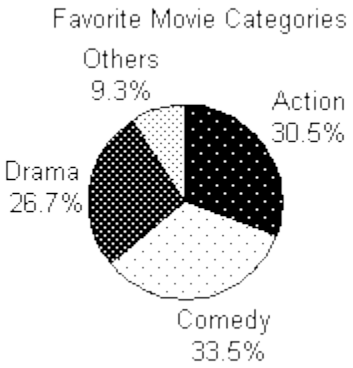
How many people voted for someone other than Ann?

A) 525 B) 196 C) 595 D) 504

Answer: D

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The circle graph summarizes the results of a survey of the favorite movie category chosen by a group of adults.



277) 2300 adults answer the survey.
How many of the survey respondents said that they favor drama movies? Round to the nearest whole.
A) 214 respondents B) 2670 respondents C) 614 respondents D) 702 respondents

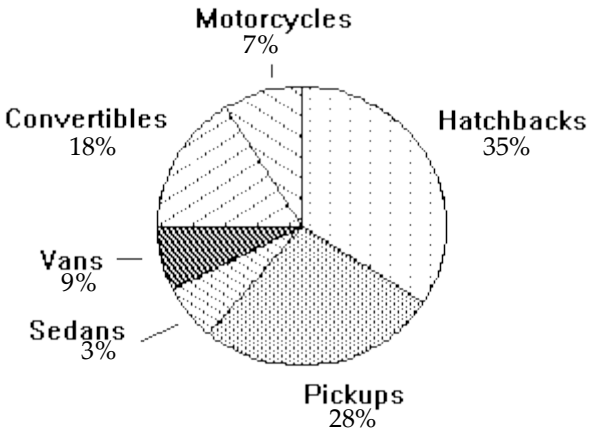
Answer: C

278) 2500 adults answer the survey.
Find the ratio of number of respondents who favor comedies to those who favor others. Write the ratio as a fraction with integers in the numerator and denominator.
A) $\frac{8375}{93}$ B) $\frac{93}{335}$ C) $\frac{335}{93}$ D) $\frac{428}{93}$

Answer: C

Use the circle graph to solve the problem.

279) A survey of the 2912 vehicles on the campus of State University yielded the following circle graph.

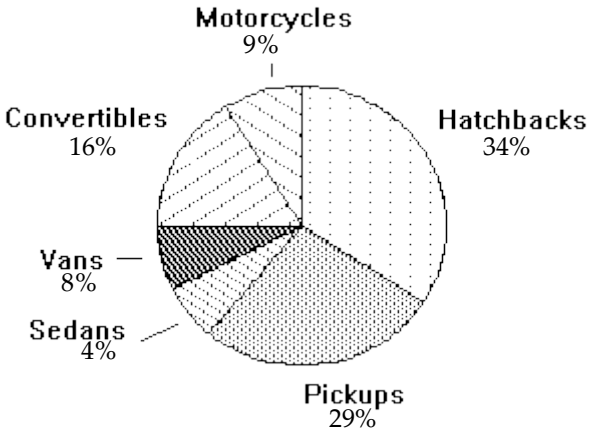


What percent of the vehicles are hatchbacks?
A) 102% B) 9% C) 28% D) 35%

Answer: D

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280) A survey of the 6186 vehicles on the campus of State University yielded the following circle graph.

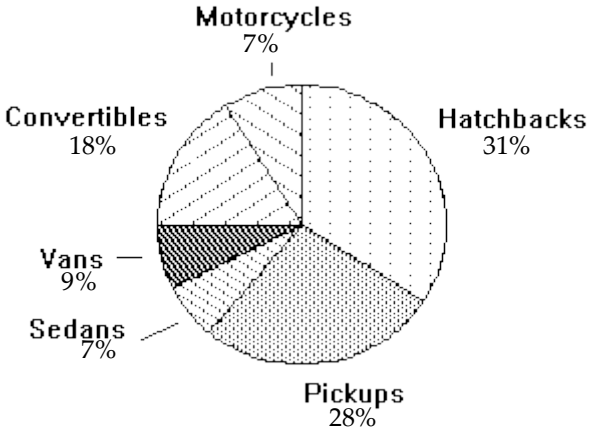


Together, what percent of the vehicles are either vans or convertibles?

A) 16% B) 24% C) 128% D) 8%

Answer: B

281) A survey of the 7602 vehicles on the campus of State University yielded the following circle graph.



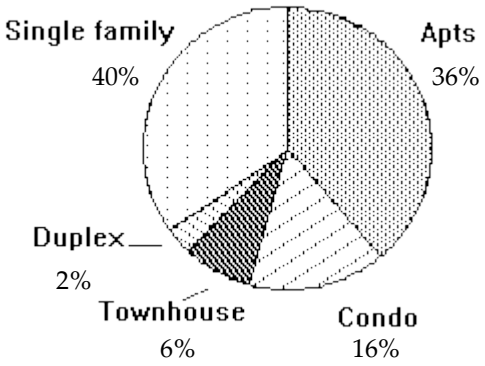
Find the number of pickups. Round your result to the nearest whole number.

A) 2129 B) 2509 C) 28 D) 5473

Answer: A

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282) The circle graph shows the percent of the total population of 66,100 of Springfield living in the given types of housing.

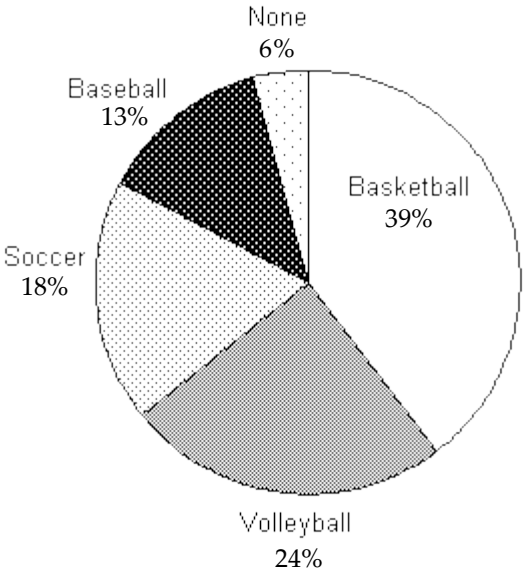


Find the number of people who live in condos. Round your result to the nearest whole number.

A) 7271 people B) 55,524 people C) 16 people D) 10,576 people

Answer: D

283) There are 17,000 students attending the local university. The students are asked which sport they most enjoy watching. The circle graph shows the percentage favoring each sport.



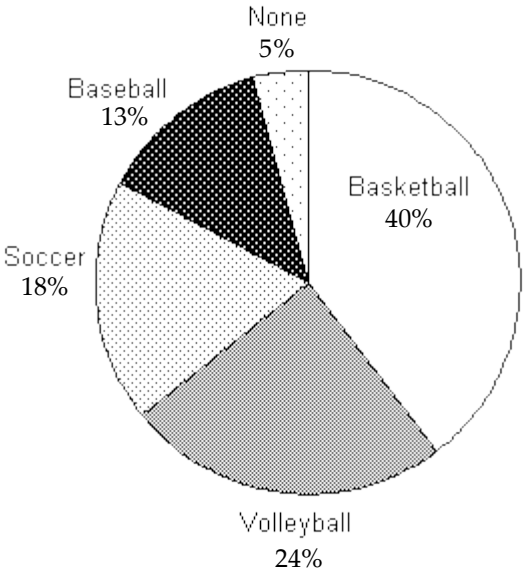
What percentage of students did not name Soccer or Volleyball as their favorite sport?

A) 18% B) 24% C) 42% D) 58%

Answer: D

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284) There are 10,000 students attending the local university. The students are asked which sport they most enjoy watching. The circle graph shows the percentage favoring each sport.

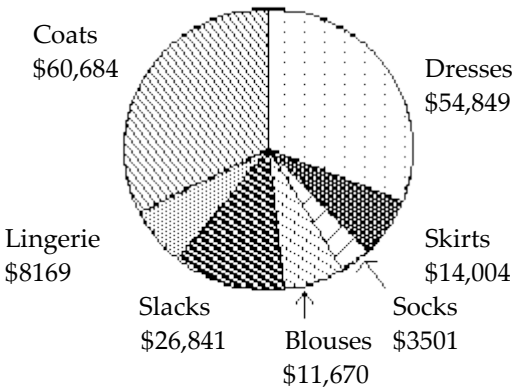


How many students' favorite sport is either Basketball or Baseball?

A) 530,000 students B) 5300 students C) 4000 students D) 1300 students

Answer: B

285) The circle graph below gives the inventory of the women's department of a store.



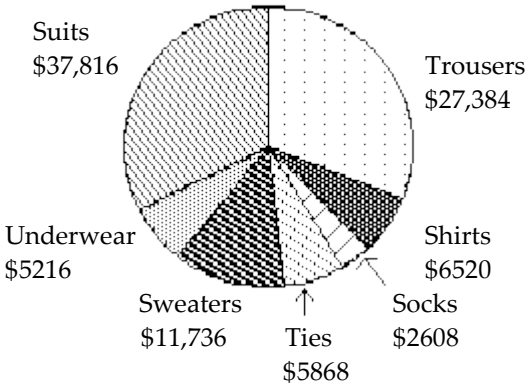
What is the total inventory?

A) $124,869 B) $176,217 C) $179,718 D) $183,219

Answer: C

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286) The circle graph below gives the inventory of the men's department of a store.

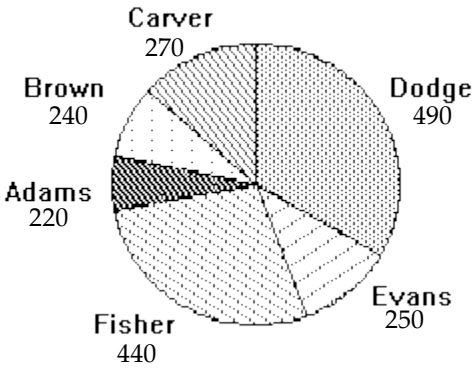


In which item of apparel does the store have the smallest investment?

A) Shirts B) Underwear C) Socks D) Suits

Answer: C

287) The circle graph below gives the number of students in the residence halls at the state university.



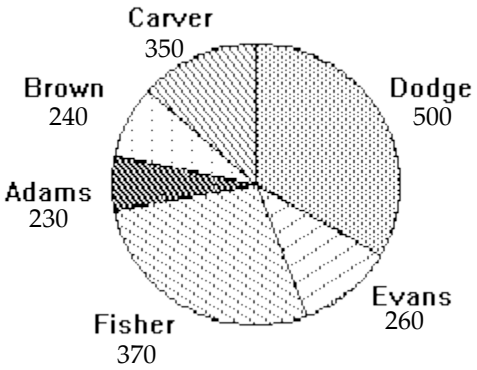
Which residence hall has the second lowest number of students?

A) Fisher B) Adams C) Dodge D) Brown

Answer: D

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288) The circle graph below gives the number of students in the residence halls at the state university.



Write the ratio as a fraction in lowest terms of the number of residents at Brown to the number of students at Dodge.

A) $\frac{16}{13}$ B) $\frac{25}{12}$ C) $\frac{12}{25}$ D) $\frac{8}{65}$

Answer: C

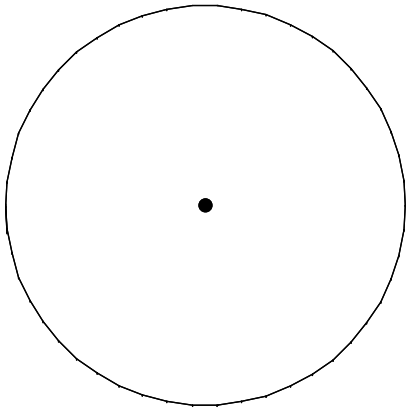
SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Fill in the table. Round to the nearest degree. Then draw a circle graph to represent the information given in the table.

289)

Shares of Stock Owned by an Investor

Type of Stock	Percent of Shares	Degrees in sector
Company A	40%	
Company B	24%	
Company C	36%	

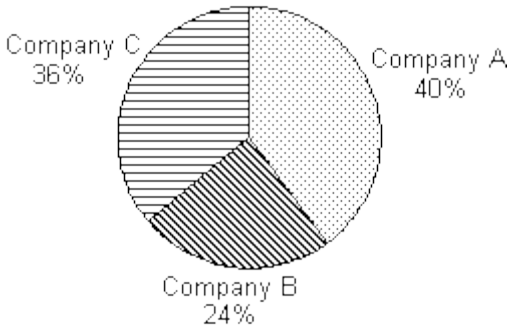


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Answer:

Shares of Stock Owned by an Investor

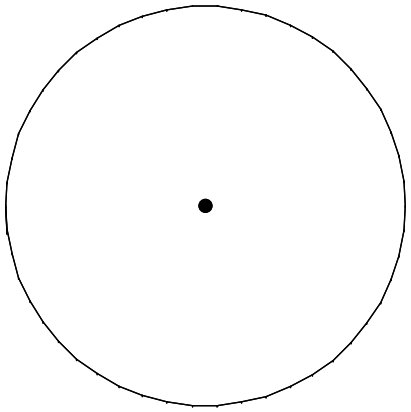
Type of Stock	Percent of Shares	Degrees in sector
Company A	40%	144˚
Company B	24%	86˚
Company C	36%	130˚



290)

Favorite Sports Among a Group of Students

Sports	Percent	Degrees in Sector
Baseball	15%	
Football	10%	
Basketball	57%	
Soccer	12%	
Others	6%	

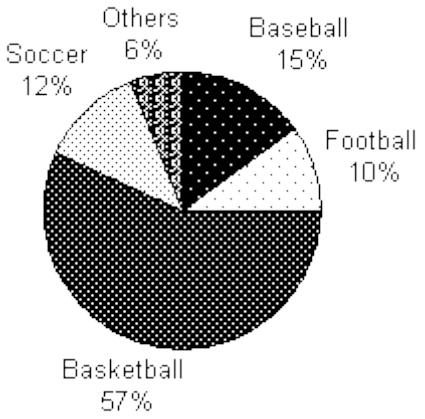


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Answer:

Favorite Sports Among a Group of Students

Sports	Percent	Degrees in Sector
Baseball	15%	54°
Football	10%	36°
Basketball	57%	205°
Soccer	12%	43°
Others	6%	22°



MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Fill in the blank with one of the words or phrases listed below.

mixed number	**factor**	**improper fraction**	**percent**
multiple	**composite number**	**proper fraction**	**simplified**
prime number	**equivalent**		

291) To _____ means to write as a product.

A) equivalent B) percent C) multiple D) factor

Answer: D

292) A(n) _____ of a number is the product of that number and any natural number.

A) multiple B) percent C) proper fraction D) factor

Answer: A

293) A(n) _____ is a natural number greater than 1 that is not prime.

A) composite number B) multiple C) proper fraction D) mixed number

Answer: A

294) The word _____ means per 100.

A) multiple B) percent C) factor D) equivalent

Answer: B

295) Fractions that represent the same portion of a whole are called _____ fractions.

A) simplified B) prime number C) equivalent D) mixed number

Answer: C

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296) A(n) _____ is a fraction whose numerator is greater than or equal to its denominator.

A) composite number B) proper fraction C) mixed number D) improper fraction

Answer: D

297) A(n) _____ is a natural number greater than 1 whose only factors are 1 and itself.

A) mixed number B) composite number C) prime number D) multiple

Answer: C

298) A fraction is _____ when the numerator and the denominator have no factors in common other than 1.

A) multiple B) simplified C) percent D) equivalent

Answer: B

299) A(n) _____ is one whose numerator is less than its denominator.

A) improper fraction B) proper fraction C) composite number D) mixed number

Answer: B

300) A(n) _____ contains a whole number part and a fraction part.

A) mixed number B) proper fraction C) prime number D) composite number

Answer: A

Solve.

301) Write the prime factorization of 968.

A) $2 \cdot 2 \cdot 11 \cdot 11 \cdot 11$ B) $2 \cdot 2 \cdot 2 \cdot 11 \cdot 11$ C) $2 \cdot 2 \cdot 2 \cdot 2 \cdot 11$ D) $8 \cdot 121$

Answer: B

302) Find the LCM of 3, 245, 75.

A) 3675 B) 11,025 C) 55,125 D) 735

Answer: A

303) Write $\frac{1}{12}$ as an equivalent fraction with a denominator of 96.

A) $\frac{12}{96}$ B) $\frac{1}{96}$ C) $\frac{8}{96}$ D) $\frac{96}{1152}$

Answer: C

Simplify the fraction.

304) $\frac{18}{42}$

A) $\frac{3}{7}$ B) $\frac{3}{6}$ C) $\frac{6}{7}$ D) $\frac{18}{42}$

Answer: A

305) $\frac{75}{135}$

A) $\frac{75}{135}$ B) $\frac{15}{9}$ C) $\frac{5}{15}$ D) $\frac{5}{9}$

Answer: D

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Solve.

306) Write 6.1 as a fraction.

A) $\frac{61}{100}$ B) $\frac{61}{10}$ C) $\frac{6.1}{10}$ D) $\frac{610}{10}$

Answer: B

Perform the indicated operation and simplify.

307) $\frac{8}{25} + \frac{8}{15}$

A) $\frac{16}{75}$ B) $\frac{64}{75}$ C) $\frac{32}{75}$ D) $\frac{64}{375}$

Answer: B

308) $\frac{5}{6} \cdot \frac{24}{35}$

A) $\frac{29}{41}$ B) $\frac{24}{7}$ C) $\frac{4}{7}$ D) $\frac{2}{21}$

Answer: C

309) $\frac{3}{4} \div 6$

A) $\frac{1}{8}$ B) $\frac{9}{2}$ C) $\frac{1}{2}$ D) 8

Answer: A

310) $\frac{7}{20} - \frac{1}{24}$

A) $\frac{1}{60}$ B) $\frac{37}{480}$ C) $\frac{41}{120}$ D) $\frac{37}{120}$

Answer: D

311) $6\frac{3}{4} + 6\frac{11}{16}$

A) $12\frac{7}{8}$ B) $121\frac{7}{16}$ C) $12\frac{7}{16}$ D) $13\frac{7}{16}$

Answer: D

312) $9\frac{4}{5} - 3\frac{3}{20}$

A) $5\frac{13}{20}$ B) $5\frac{1}{20}$ C) $6\frac{1}{20}$ D) $6\frac{13}{20}$

Answer: D

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313) $6\frac{4}{5} \div \frac{1}{5}$

A) $1\frac{9}{25}$ B) 34 C) $30\frac{4}{5}$ D) 10

Answer: B

314) $5\frac{3}{5} \cdot 3\frac{3}{4}$

A) 21 B) $20\frac{7}{10}$ C) $2\frac{2}{5}$ D) $15\frac{9}{20}$

Answer: A

Perform the indicated operation.

315) 55 + 0.46 + 5.2

A) 55.98 B) 60.246 C) 64.8 D) 60.66

Answer: D

316) 479.4 – 23.52

A) 455.52 B) 244.2 C) 455.88 D) 477.048

Answer: C

317)

$$\begin{array}{r} 8.11 \\ \times\ 6.2 \\ \hline \end{array}$$

A) 0.50282 B) 5.0282 C) 50.282 D) 502.82

Answer: C

318) $0.25\overline{)80}$

A) 20 B) 32 C) 320 D) 0.0031

Answer: C

Solve.

319) Round 11.0907 to the nearest hundredth.

A) 11.19 B) 11.0907 C) 10.99 D) 11.09

Answer: D

320) Write $\frac{7}{8}$ as a decimal.

A) 0.85 B) 0.0875 C) 0.925 D) 0.875

Answer: D

321) Write $\frac{11}{6}$ as a repeating decimal. Then approximate the result to the nearest thousandth.

A) $1.8\overline{6} \approx 1.867$ B) $1.8\overline{3} \approx 1.834$ C) $1.8\overline{3} \approx 1.833$ D) $1.\overline{83} \approx 1.838$

Answer: C

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322) Write 7.7% as a decimal.

A) 0.077 B) 0.77 C) 0.0077 D) 7.7

Answer: A

323) Write 0.61 as a percent.

A) 6.1% B) 61% C) 610% D) 0.061%

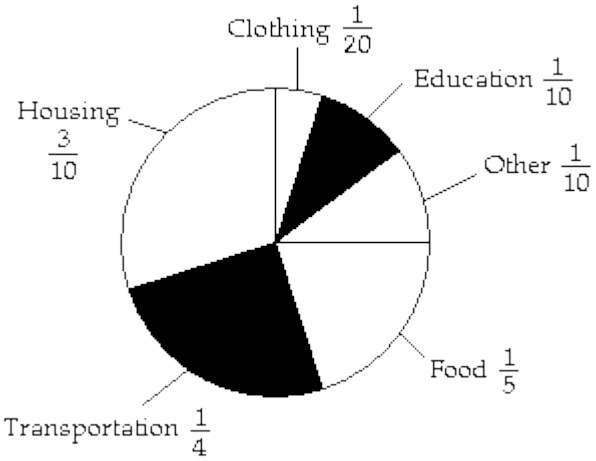
Answer: B

324) Write $\frac{1}{5}$ as a percent. (Hint: Write $\frac{1}{5}$ as a decimal, and then write the decimal as a percent.)

A) 2% B) 0.2% C) 200% D) 20%

Answer: D

The circle graph below shows us how an average consumer spends money.



325) What fraction of spending goes for education?

A) $\frac{1}{5}$ B) $\frac{3}{10}$ C) $\frac{1}{10}$ D) $\frac{1}{4}$

Answer: C

326) What fraction of spending goes for food?

A) $\frac{1}{5}$ B) $\frac{1}{2}$ C) $\frac{1}{20}$ D) $\frac{1}{10}$

Answer: A

327) What fraction of spending goes for clothing and transportation combined?

A) $\frac{11}{20}$ B) $\frac{3}{10}$ C) $\frac{19}{30}$ D) $\frac{4}{5}$

Answer: B

328) What fraction of spending goes for clothing, transportation, and other combined?

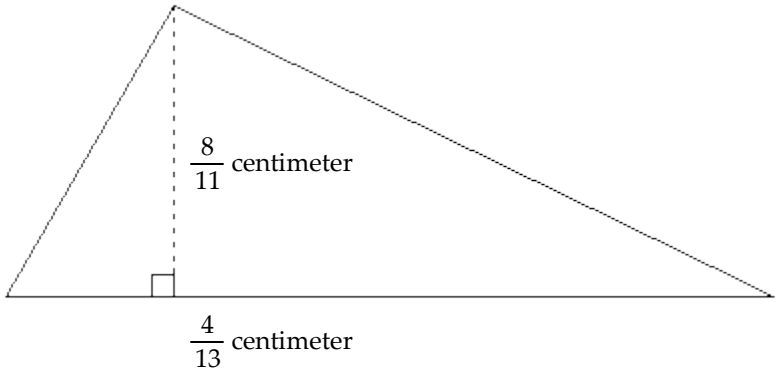
A) $\frac{9}{10}$ B) $\frac{2}{5}$ C) $\frac{1}{5}$ D) $\frac{13}{80}$

Answer: B

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Find the area of the figure.

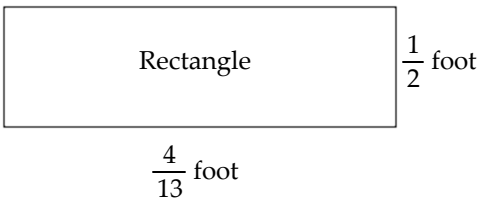
329)



A) $\frac{143}{16}$ sq cm B) $\frac{64}{143}$ sq cm C) $\frac{16}{143}$ sq cm D) $\frac{32}{143}$ sq cm

Answer: C

330)



A) $\frac{4}{15}$ sq ft B) $\frac{2}{13}$ sq ft C) $\frac{1}{3}$ sq ft D) $\frac{4}{26}$ sq ft

Answer: B

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1) D
2) C
3) C
4) A
5) C
6) C
7) D
8) D
9) B
10) B
11) B
12) A
13) B
14) B
15) B
16) B
17) B
18) C
19) C
20) C
21) D
22) C
23) B
24) D
25) B
26) C
27) D
28) C
29) D
30) D
31) D
32) D
33) A
34) A
35) C
36) B
37) A
38) D
39) B
40) A
41) B
42) B
43) A
44) B
45) A
46) C
47) B
48) C
49) A
50) D

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51) B
52) D
53) D
54) A
55) B
56) D
57) B
58) D
59) D
60) D
61) C
62) D
63) D
64) C
65) D
66) D
67) C
68) A
69) A
70) B
71) D
72) B
73) B
74) B
75) C
76) B
77) C
78) A
79) B
80) B
81) B
82) D
83) C
84) C
85) D
86) B
87) A
88) C
89) D
90) C
91) D
92) D
93) A
94) B
95) A
96) C
97) A
98) B
99) A
100) C

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101) B
102) D
103) B
104) C
105) C
106) B
107) D
108) A
109) D
110) C
111) A
112) D
113) D
114) D
115) D
116) A
117) D
118) C
119) A
120) B
121) A
122) C
123) A
124) C
125) A
126) B
127) A
128) A
129) D
130) D
131) D
132) B
133) A
134) D
135) C
136) A
137) B
138) A
139) C
140) B
141) A
142) C
143) A
144) B
145) C
146) C
147) B
148) D
149) D
150) D

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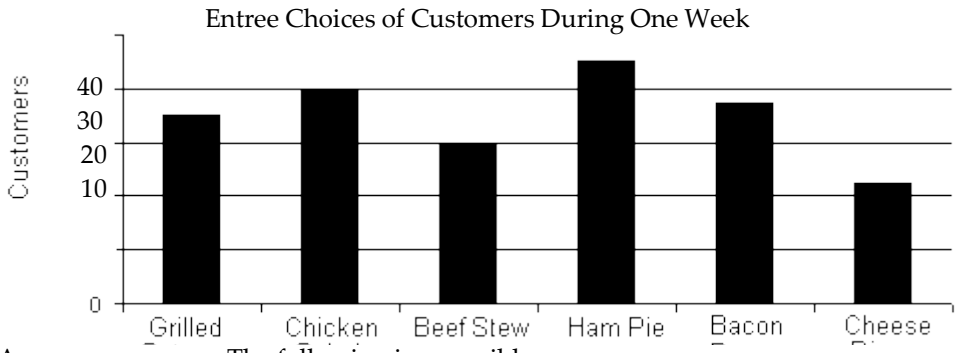
151) A
152) A
153) B
154) A
155) D
156) B
157) C
158) D
159) D
160) A
161) D
162) C
163) A
164) B
165) A
166) B
167) C
168) C
169) D
170) B
171) D
172) D
173) B
174) D
175) D
176) B
177) B
178) D
179) C
180) C
181) C
182) B
183) B
184) C
185) B
186) C
187) B
188) A
189) B
190) D
191) C
192) C
193) D
194) D
195) D
196) B
197) A
198) B
199) D
200) A

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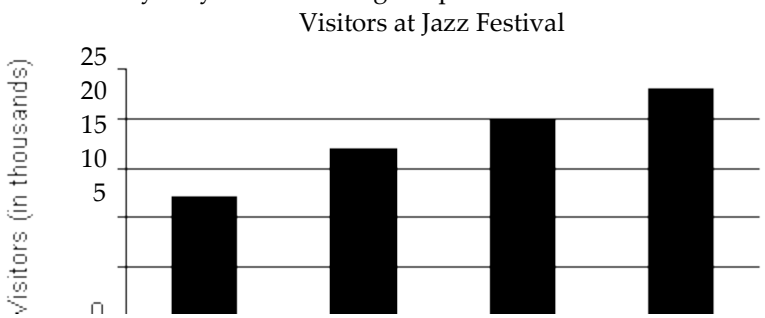
201) D
202) A
203) A
204) C
205) B
206) B
207) C
208) D
209) D
210) C
211) C
212) A
213) B
214) B
215) A
216) A
217) A
218) C
219) A
220) A
221) D
222) A
223) D
224) A
225) C
226) C
227) A
228) B
229) C
230) A
231) D
232) B
233) D
234) D
235) D
236) D
237) D
238) A
239) C
240) C
241) A
242) A
243) C

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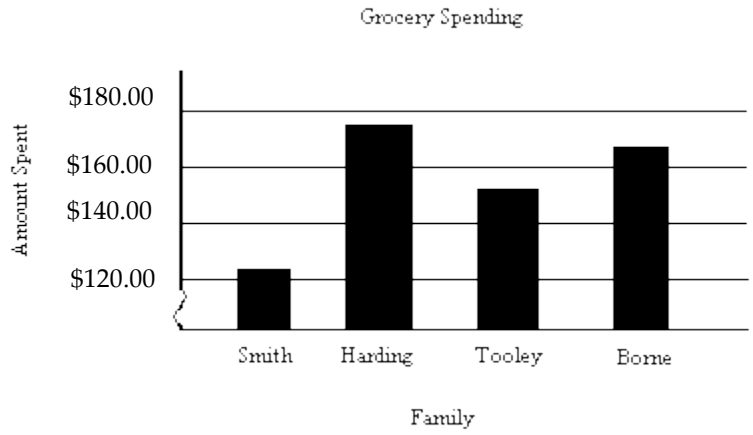
244) Answers may vary. The following is a possible answer.



245) Answers may vary. The following is a possible answer.

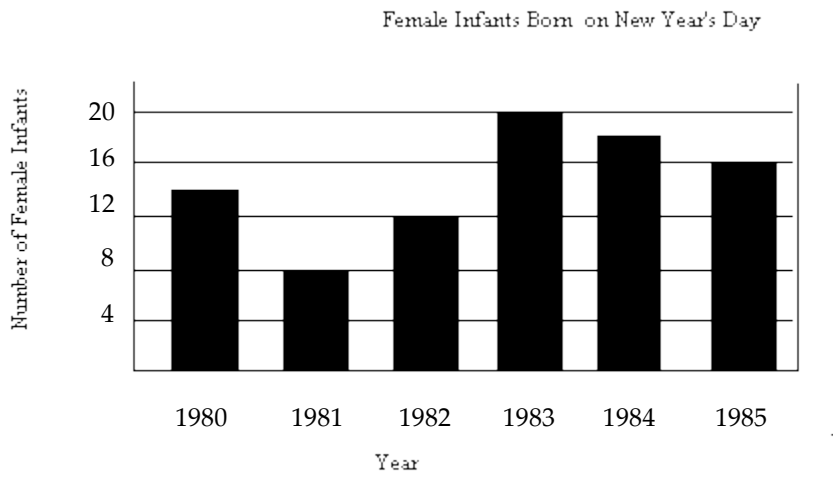


246) Answers may vary. The following is a possible answer.

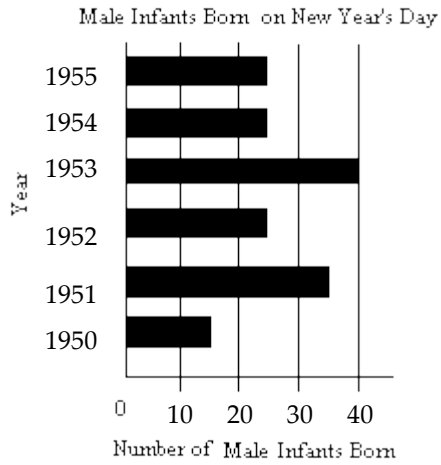


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247) Answers may vary. The following is a possible answer.

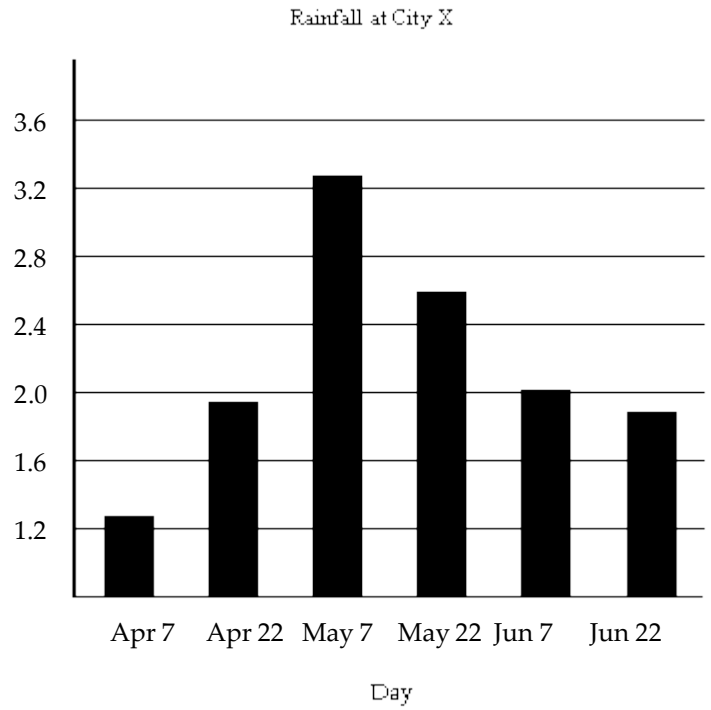


248) Answers may vary. The following is a possible answer.



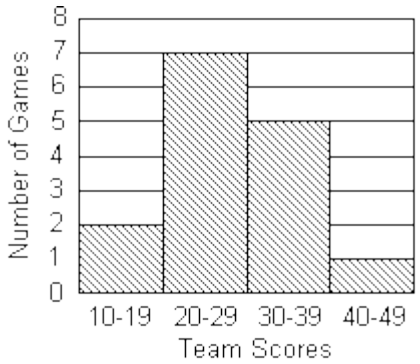
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249) Answers may vary. The following is a possible answer.



250) C
251) D
252) C
253) D
254) C
255)

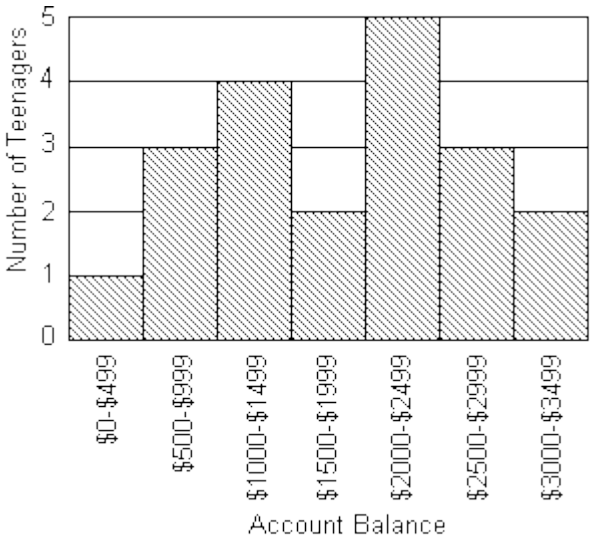
Class Intervals (Scores)	Tally	Class Frequency (Number of Games)
10-19	II	2
20-29	𝍸 II	7
30-39	𝍸	5
40-49	I	1



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256)

Class Intervals (Account Balances)	Tally	Class Frequency (Number of Teenagers)
$0-$499	I	1
$500-$999	III	3
$1000-$1499	IIII	4
$1500-$1999	II	2
$2000-$2499	⧻	5
$2500-$2999	III	3
$3000-$3499	II	2



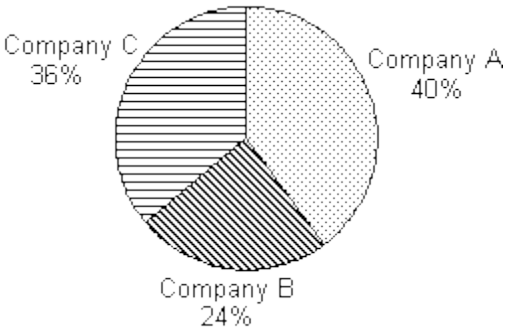
257) D
258) C
259) C
260) C
261) D
262) C
263) 84°F
264) A
265) D
266) Friday; 3°F
267) D
268) A
269) C
270) C
271) C
272) B
273) C
274) D
275) A
276) D
277) C
278) C

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279) D
280) B
281) A
282) D
283) D
284) B
285) C
286) C
287) D
288) C
289)

Shares of Stock Owned by an Investor

Type of Stock	Percent of Shares	Degrees in sector
Company A	40%	144˚
Company B	24%	86˚
Company C	36%	130˚

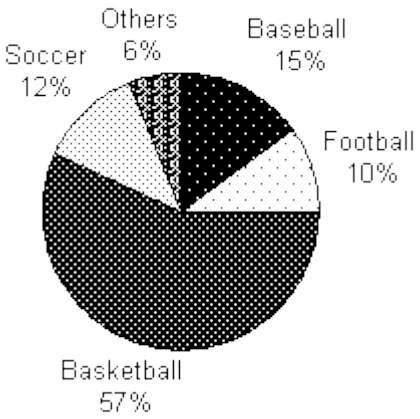


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290)

Favorite Sports Among a Group of Students

Sports	Percent	Degrees in Sector
Baseball	15%	54°
Football	10%	36°
Basketball	57%	205°
Soccer	12%	43°
Others	6%	22°



291) D
292) A
293) A
294) B
295) C
296) D
297) C
298) B
299) B
300) A
301) B
302) A
303) C
304) A
305) D
306) B
307) B
308) C
309) A
310) D
311) D
312) D
313) B
314) A
315) D
316) C
317) C

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318) C
319) D
320) D
321) C
322) A
323) B
324) D
325) C
326) A
327) B
328) B
329) C
330) B

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MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Answer the question according to what the textbook states.

1) Which of these is the most important general tip for success in a mathematics course?
A) Organize your class materials B) Do your homework
C) Don't be afraid to ask questions D) Check your work

Answer: A

2) Which of these is NOT listed as a tip to help you succeed in this course?
A) Know how to get help if you need it.
B) Read your textbook after you attend class.
C) Exchange names and phone numbers with at least one other person in class.
D) Hand in assignments on time.

Answer: B

3) Which of these is NOT an end–of–chapter component designed to help you understand the concepts of the chapter?
A) Vocabulary checks B) Calculator exercises
C) Chapter test D) Highlights

Answer: B

4) Which of these is listed as one of several steps in preparing for an exam?
A) Skip over the chapter Highlights.
B) Use your notes, previous assignments, and text the entire time you are studying.
C) Leave for the exam as late as possible to increase your amount of study time.
D) Practice exercises by working the chapter review.

Answer: D

Insert <, >, or = to make the statement true.

5) –5 _____ –1
A) = B) < C) >

Answer: B

6) 65 _____ –11
A) < B) > C) =

Answer: B

7) –59 _____ –56
A) = B) > C) <

Answer: C

8) –7.3 ____ –7.9
A) > B) = C) <

Answer: A

9) 3 _____ 0
A) = B) > C) <

Answer: B

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10) 0 _____ 3

A) = B) > C) <

Answer: C

11) –3 _____ 0

A) < B) = C) >

Answer: A

12) 0 _____ –3

A) < B) = C) >

Answer: C

13) $\frac{24}{4}$ _____ $\frac{30}{5}$

A) = B) > C) <

Answer: A

Write an inequality statement using the numbers in the problem.

14) Building A is 70 feet tall. Building B is 86 feet tall. Write an inequality statement using < or > comparing the numbers 70 and 86.

A) 70 > 86 B) 70 < 86

Answer: B

15) On Tuesday, the temperature was 63° Fahrenheit. On Thursday, the temperature was 40° Fahrenheit. Write an inequality statement using < or > comparing the numbers 63 and 40.

A) 63 < 40 B) 63 > 40

Answer: B

16) At Relax Resort, the Beginner's Trail is 7 kilometers long. The Advanced Trail is 20 kilometers long. Write an inequality statement using ≤ or ≥ comparing the numbers 7 and 20.

A) 7 ≥ 20 B) 7 ≤ 20

Answer: B

17) As part of a fund raiser, Maria sold 271 candy bars. Drew sold 149 candy bars. Write an inequality statement using ≤ or ≥ comparing the numbers 271 and 149.

A) 271 ≤ 149 B) 271 ≥ 149

Answer: B

Is the following statement true or false?

18) 6 > 24

A) True B) False

Answer: B

19) 20 ≥ 5

A) True B) False

Answer: A

20) –86 < 0

A) True B) False

Answer: A

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21) $15 < -4$

A) True B) False

Answer: B

22) $20 \leq 13$

A) True B) False

Answer: B

23) $-7 \leq 23$

A) True B) False

Answer: A

24) $14 > 11$

A) True B) False

Answer: A

25) $-5 \geq 13$

A) True B) False

Answer: B

26) $\frac{13}{17} > \frac{1}{2}$

A) True B) False

Answer: A

27) $-6.2 < 6.5$

A) True B) False

Answer: A

Rewrite the statement so the inequality symbol points in the opposite direction and the new statement has the same meaning as the original.

28) $39 < 50$

A) $50 > 39$ B) $39 > 50$ C) $50 \geq 39$ D) $50 < 39$

Answer: A

29) $40 > 10$

A) $40 \geq 10$ B) $40 < 10$ C) $10 > 40$ D) $10 < 40$

Answer: D

30) $49 \geq 45$

A) $49 \leq 45$ B) $45 \leq 49$ C) $49 > 45$ D) $45 \geq 49$

Answer: B

31) $-22 \leq 22$

A) $-22 \geq 22$ B) $-22 < 22$ C) $22 \leq -22$ D) $22 \geq -22$

Answer: D

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32) $-3 < -1$

A) $-3 > -1$ B) $-3 \leq -1$ C) $-1 < -3$ D) $-1 > -3$

Answer: D

33) $17 \leq 23$

A) $23 \geq 17$ B) $23 \leq 17$ C) $17 \geq 23$ D) $23 > 17$

Answer: A

Write the sentence as a mathematical statement.

34) Thirteen is greater than eight.

A) $13 > 8$ B) $13 \geq 8$ C) $13 < 8$ D) $13 = 8$

Answer: A

35) Negative forty-four is less than negative twelve.

A) $-44 < -12$ B) $-44 \leq -12$ C) $-44 > -12$ D) $-44 < 12$

Answer: A

36) Twelve is greater than or equal to one.

A) $12 \leq 1$ B) $12 > 1$ C) $12 \geq 1$ D) $12 = 1$

Answer: C

37) Thirteen is less than or equal to nineteen.

A) $13 < 19$ B) $13 \geq 19$ C) $13 \leq 19$ D) $13 \neq 19$

Answer: C

38) Negative eighteen is equal to negative eighteen.

A) $-18 = -18$ B) $-18 \geq -18$ C) $-18 \leq -18$ D) $-18 \neq -18$

Answer: A

39) Forty-four is not equal to negative forty-four.

A) $44 = -44$ B) $44 \geq -44$ C) $44 \neq -44$ D) $44 \leq -44$

Answer: C

40) Eighteen is not equal to twenty-five.

A) $18 \geq 25$ B) $18 = 25$ C) $18 \leq 25$ D) $18 \neq 25$

Answer: D

41) Ninety-one is greater than or equal to ninety-one.

A) $91 \geq 91$ B) $91 < 91$ C) $91 > 91$ D) $91 = 91$

Answer: A

Represent the quantity by an integer.

42) 300 feet below sea level

A) 300 B) -300

Answer: B

43) 11° above zero

A) -11 B) 11

Answer: B

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44) $115 loss

A) –115 B) 115

Answer: A

45) 24–pound gain

A) 24 B) –24

Answer: A

46) losing 38 cents

A) 38 B) –38

Answer: B

47) $3819 out of debt

A) 3819 B) –3819

Answer: A

48) The team scored 20 points.

A) 20 B) –20

Answer: A

49) a deduction of $410.03 in your checkbook

A) –410.03 B) 410.03

Answer: A

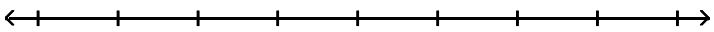
50) a decrease of 186 feet in elevation

A) –186 B) 186

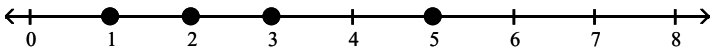
Answer: A

Graph each set of numbers on the number line.

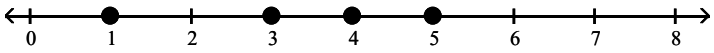
51) 1, 3, 5, 7



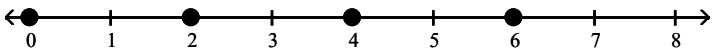
A)



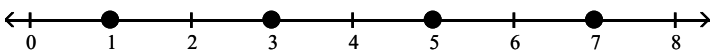
B)



C)



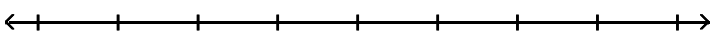
D)



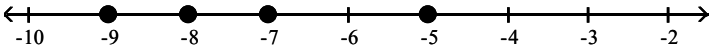
Answer: D

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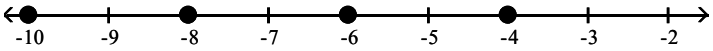
52) –9, –7, –5, –3



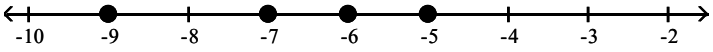
A)



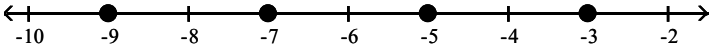
B)



C)

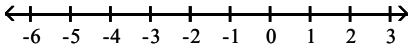


D)

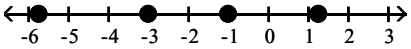


Answer: D

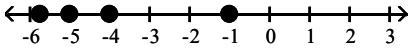
53) –5.75, –3, –1, 1.25



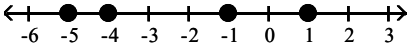
A)



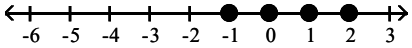
B)



C)

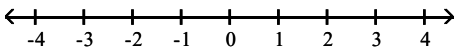


D)

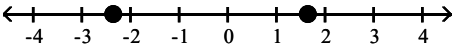


Answer: A

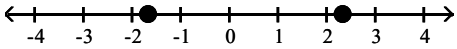
54) $\frac{7}{3}, -\frac{7}{3}$



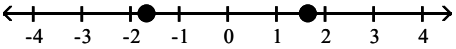
A)



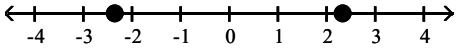
B)



C)



D)

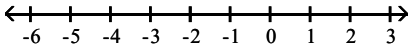


Answer: D

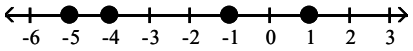
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55) $-5\frac{2}{3}, -3, -1, 1\frac{2}{3}$

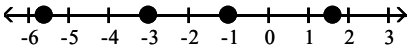
A)



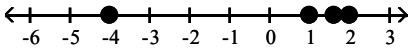
B)

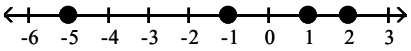


C)



D)





Answer: A

Tell which set or sets the number belongs to: natural numbers, whole numbers, integers, rational numbers, irrational numbers, and real numbers.

56) 0

A) whole, integers, rational, real
B) integers, real
C) rational, real
D) whole, real

Answer: A

57) $\frac{1}{16}$

A) irrational, real
B) real
C) whole, real
D) rational, real

Answer: D

58) $-\frac{10}{17}$

A) rational, real
B) integers, real
C) irrational, real
D) real

Answer: A

59) 44

A) integers, rational, real
B) natural, whole, integers, rational, real
C) real
D) whole, rational, real

Answer: B

60) –49

A) whole, real
B) integers, rational, real
C) irrational, real
D) real

Answer: B

61) $\sqrt{8}$

A) whole, real
B) irrational, real
C) rational, real
D) integers, real

Answer: B

62) 1.53

A) real
B) rational, real
C) natural, rational, real
D) rational

Answer: B

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63) 0.5454...

A) natural, rational, real
B) irrational, real
C) real
D) rational, real

Answer: D

64) $-\sqrt{6}$

A) integers, real
B) irrational, real
C) rational, real
D) whole, real

Answer: B

Tell whether the statement is true or false.

65) Every rational number is an integer.

A) True
B) False

Answer: B

66) Every irrational number is an integer.

A) True
B) False

Answer: B

67) Every whole number is a real number.

A) True
B) False

Answer: A

68) Some rational numbers are irrational.

A) True
B) False

Answer: B

69) Some rational numbers are integers.

A) True
B) False

Answer: A

70) Every integer is an irrational number.

A) True
B) False

Answer: B

71) Some real numbers are integers.

A) True
B) False

Answer: A

Find the absolute value.

72) $|5|$

A) 10
B) –5
C) 0
D) 5

Answer: D

73) $|-7|$

A) 7
B) 14
C) –7
D) 0

Answer: A

74) $|0|$

A) 0
B) does not exist

Answer: A

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75) $|0.9|$

A) 0.9 B) 0 C) 1.8 D) –0.9

Answer: A

76) $|-8.9|$

A) –8.9 B) 8.9 C) 17.8 D) 0

Answer: B

77) $\left|\frac{1}{25}\right|$

A) $\frac{1}{25}$ B) $\frac{1}{50}$ C) $-\frac{1}{25}$ D) 25

Answer: A

78) $\left|-\frac{1}{9}\right|$

A) $\frac{1}{9}$ B) $\frac{1}{18}$ C) 9 D) $-\frac{1}{9}$

Answer: A

Insert <, >, or = to make the statement true.

79) $|-3|$ _____ -2

A) > B) = C) <

Answer: A

Insert <, >, or = to make the statement true.

80) $|-4|$ _____ $|1|$

A) < B) > C) =

Answer: B

81) $|-1|$ _____ $|1|$

A) > B) < C) =

Answer: C

82) $|-10|$ _____ 0

A) > B) = C) <

Answer: A

Insert <, >, or = to make the statement true.

83) $\left|-\frac{2}{9}\right|$ _____ $\left|\frac{2}{9}\right|$

A) > B) = C) <

Answer: B

84) $|-5.2|$ _____ $|-5|$

A) > B) = C) <

Answer: A

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85) $|-3|$ _____ $|-3.3|$

A) $<$ B) $=$ C) $>$

Answer: A

86) $|-6|$ _____ $\frac{-12}{2}$

A) $<$ B) $=$ C) $>$

Answer: C

Evaluate.

87) 6^2

A) 36 B) 49 C) 64 D) 12

Answer: A

88) 11^3

A) 33 B) 1331 C) 1000 D) 177,147

Answer: B

89) 5^4

A) 1024 B) 125 C) 20 D) 625

Answer: D

90) 7^5

A) 78,125 B) 16,807 C) 117,649 D) 35

Answer: B

91) $\left(\frac{1}{3}\right)^2$

A) $\frac{1}{9}$ B) $\frac{2}{3}$ C) $\frac{1}{5}$ D) $\frac{1}{6}$

Answer: A

92) $\left(\frac{5}{7}\right)^2$

A) $\frac{25}{49}$ B) $\frac{25}{7}$ C) $2\frac{5}{7}$ D) $\frac{49}{25}$

Answer: A

93) $(5.9)^2$

A) 2.95 B) 11.8 C) 34.81 D) 3481

Answer: C

94) $(0.8)^2$

A) 64 B) 1.6 C) 0.64 D) 0.4

Answer: C

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Write the expressions in exponential notation.

95) The area of a square whose sides each measure 8 meters is $(8 \cdot 8)$ square meters. Write this area using exponential notation.

A) 2^8 sq m B) 8^2 sq m C) $(2 + 8)$ m D) $(2 \cdot 8)$ sq m

Answer: B

96) The area of a circle whose radius is 5 feet is $(5 \cdot 5 \cdot \pi)$ square feet. Write this area using exponential notation.

A) $(2 \cdot 5 \cdot \pi)$ sq ft B) $5^{2\pi}$ sq ft C) $(2 + 5 + \pi)$ ft D) $5^2 \pi$ sq ft

Answer: D

Simplify the expression.

97) $15 + 23 \cdot 18$

A) 684 B) 363 C) 56 D) 429

Answer: D

98) $4 \cdot 7 - 4$

A) 32 B) 112 C) 12 D) 24

Answer: D

99) $240 \div 5 - 3$

A) 232 B) 238 C) 120 D) 45

Answer: D

100) $14 \cdot 15 + 5 \cdot 6$

A) 240 B) 1290 C) 1680 D) 630

Answer: A

101) $8^2 - 3 \cdot 2$

A) 58 B) 50 C) 80 D) 122

Answer: A

102) $\frac{1}{3} + \frac{1}{6} \cdot \frac{1}{4}$

A) $\frac{11}{9}$ B) $\frac{1}{8}$ C) $\frac{1}{36}$ D) $\frac{3}{8}$

Answer: D

103) $80 - 5 \cdot 14 + 160 \div (16)$

A) 816 B) 16 C) 1060 D) 20

Answer: D

104) $6[2 + 6(5 + 7)]$

A) 444 B) 84 C) 576 D) 572

Answer: A

105) $15 + (5 \cdot 4 + 40) \div 5$

A) 28 B) 27 C) 43 D) 24

Answer: B

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106) $|-4| + |17 + 3|$

A) 16 B) 38 C) 24 D) 18

Answer: C

107) $\dfrac{20 + (6)(3)}{2[8 \div (2 + 2)]}$

A) $\dfrac{33}{2}$ B) $\dfrac{1}{2}$ C) undefined D) $\dfrac{19}{2}$

Answer: D

108) $(5 - 2)(4 + 6) + 5^2$

A) 25 B) 10 C) 3 D) 55

Answer: D

109) $21 - [5 + (9 - 2)] - (5 - 3)^3$

A) 31 B) 14 C) 17 D) 1

Answer: D

110) $\dfrac{8}{5} \cdot \dfrac{1}{7} + \dfrac{5}{6} \cdot \dfrac{1}{5}$

A) $\dfrac{83}{110}$ B) $\dfrac{83}{210}$ C) $\dfrac{83}{160}$ D) $\dfrac{5}{14}$

Answer: B

Evaluate the expression when x = 2, y = 1, and z = 4.

111) $7z$

A) 4 B) 11 C) 7 D) 28

Answer: D

112) $\dfrac{y}{8x}$

A) $\dfrac{1}{4}$ B) 16 C) $\dfrac{1}{16}$ D) $\dfrac{y}{16}$

Answer: C

113) $7x + 4$

A) 18 B) 15 C) 42 D) 56

Answer: A

114) $|6z - 4y|$

A) 20 B) 28 C) 16 D) –20

Answer: A

115) $2z^2$

A) 12 B) 32 C) 16 D) 18

Answer: B

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Evaluate the expression for the given replacement values.

116) $\frac{10x}{y} + y^3 \quad x = 5, y = 6$

A) $\frac{673}{3}$ B) $\frac{34}{3}$ C) $\frac{133}{3}$ D) 137

Answer: A

117) $\frac{4x - 6y}{8} \quad x = 8, y = 2$

A) $\frac{5}{2}$ B) $\frac{11}{2}$ C) 5 D) $\frac{13}{4}$

Answer: A

118) $\frac{7x - 11y}{x + 8} \quad x = 7, y = 4$

A) $\frac{1}{3}$ B) $\frac{49}{12}$ C) $\frac{49}{15}$ D) $\frac{5}{12}$

Answer: A

119) $(x + 2y)^2 \quad x = 3, y = 2$

A) 7 B) 49 C) 14 D) 25

Answer: B

120) $3y + \frac{50}{x} \quad x = 5, y = 7$

A) 31 B) 10 C) 71 D) 13

Answer: A

Decide whether the given number is a solution of the given equation.

121) $x + 12 = 15;\ 3$

A) not a solution B) solution

Answer: B

122) $x - 6 = 9;\ 15$

A) solution B) not a solution

Answer: A

123) $7x + 8 = 66;\ 8$

A) not a solution B) solution

Answer: A

124) $8x - 8 = 25 - 3x;\ 3$

A) not a solution B) solution

Answer: B

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125) $\frac{1}{3}x = 15;\ 45$

A) solution B) not a solution

Answer: A

126) $x + 4 = x + 4;\ 13$

A) not a solution B) solution

Answer: B

Write the phrase as an algebraic expression. Let x represent the unknown number.

127) Fourteen more than a number

A) 14x B) $\frac{x}{14}$ C) x – 14 D) x + 14

Answer: D

128) A number increased by 2

A) x + 2 B) $\frac{x}{2}$ C) x –2 D) 2x

Answer: A

129) Ten subtracted from a number

A) 10 – x B) x + 10 C) x – 10 D) $\frac{x}{10}$

Answer: C

130) Twelve decreased by a number

A) 12 – x B) x + 12 C) x – 12 D) $\frac{x}{12}$

Answer: A

131) The ratio of a number and 4

A) x – 4 B) $\frac{x}{4}$ C) 4x D) x + 4

Answer: B

132) The quotient of a number and 16

A) x – 16 B) $\frac{16}{x}$ C) $\frac{x}{16}$ D) 16x

Answer: C

133) Twice a number, increased by 73

A) 2x + 73 B) x + 73 C) 2x – 73 D) 2(x + 73)

Answer: A

134) Three times a number, decreased by 68

A) 3x + 68 B) 3(x – 68) C) x – 68 D) 3x – 68

Answer: D

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Write the sentence as an equation. Use x to represent any unknown number.

135) One increased by two equals the quotient of twenty–one and seven.

A) $1 + 2 = 21 \div 7$ B) $1 + 2 = 21 - 7$ C) $1 + 2 = 7 \div 21$ D) $1 + 2 = 21 \cdot 7$

Answer: A

136) Four subtracted from thirteen is equal to three squared.

A) $4 - 13 = 2 \cdot 3$ B) $13 - 4 = 2 \cdot 3$ C) $13 - 4 = 3^2$ D) $4 - 13 = 3^2$

Answer: C

137) Six is not equal to ten divided by two.

A) $6 \neq 10 \div 2$ B) $6 \div 2 \neq 10$ C) $6 = 10 \div 2$ D) $6 \neq 10$

Answer: A

138) The difference of twelve and three is greater than six.

A) $3 - 12 < 6$ B) $3 - 12 > 6$ C) $12 - 3 > 6$ D) $12 - 3 < 6$

Answer: C

139) The sum of 15 and a number is 30.

A) $30 + 15 = x$ B) $15 = 30 + x$ C) $15 + x = 30$ D) $15 - x = 30$

Answer: C

140) Eight subtracted from a number is zero.

A) $8 - x = 0$ B) $x - 8 = 0$ C) $\frac{x}{8} = 0$ D) $x + 8 = 0$

Answer: B

141) The product of 2.10 and a number is 168.

A) $168x = 2.10$ B) $10.2 \cdot 168 = x$ C) $10.2 + x = 168$ D) $2.10x = 168$

Answer: D

142) 4.3 times a number equals 35.

A) $4.3x = 35$ B) $35x = 4.3$ C) $3.4 + x = 35$ D) $3.4 \cdot 35 = x$

Answer: A

143) Eight subtracted from four times a number is 8.

A) $8(4 - x) = 8$ B) $8 - 4x = 8$ C) $4x - 8 = 8$ D) $4(x - 8) = 8$

Answer: C

144) Eleven added to four times a number is 13.

A) $4(x + 11) = 13$ B) $4x + 11 = 13$ C) $(11 + 4)x = 13$ D) $4x = 11 + 13$

Answer: B

Add.

145) $9 + (-7)$

A) -2 B) 2 C) -16 D) 16

Answer: B

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146) –9 + 15
A) –6 B) –24 C) 24 D) 6
Answer: D

147) –4 + (–2)
A) –2 B) –6 C) 2 D) 6
Answer: B

148) 10 + (–18)
A) 28 B) 8 C) –28 D) –8
Answer: D

149) –3 + 4
A) –7 B) –1 C) 1 D) 7
Answer: C

150) –17 + (–23)
A) –40 B) –6 C) 6 D) 40
Answer: A

151) 22 + (–31)
A) 53 B) 9 C) –9 D) –53
Answer: C

152) –33 + 22
A) –11 B) 11 C) 55 D) –55
Answer: A

153) –12 + (–47)
A) –35 B) 35 C) 59 D) –59
Answer: D

154) 8 + (–8)
A) 16 B) 8 C) –8 D) 0
Answer: D

155) –11 + (–11)
A) 22 B) 0 C) –11 D) –22
Answer: D

156) 7 + (–82)
A) 75 B) 89 C) –75 D) –89
Answer: C

157) –36 + 4
A) –32 B) 40 C) 32 D) –40
Answer: A

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158) $-38 + (-32)$

A) -6 B) -70 C) 70 D) 6

Answer: B

159) $53 + (-150)$

A) -203 B) 203 C) 97 D) -97

Answer: D

160) $-71 + 146$

A) 75 B) -75 C) 217 D) -217

Answer: A

161) $-98 + (-142)$

A) 44 B) -240 C) -44 D) 240

Answer: B

162) $5.3 + (-9.1)$

A) -14.4 B) -3.8 C) 3.8 D) 14.4

Answer: B

163) $-10.8 + 9.0$

A) 19.8 B) -19.8 C) 1.8 D) -1.8

Answer: D

164) $-8.2 + (-2.4)$

A) -5.8 B) 5.8 C) 10.6 D) -10.6

Answer: D

165) $\frac{2}{7} + (-\frac{5}{7})$

A) 1 B) -1 C) $-\frac{3}{7}$ D) $\frac{3}{7}$

Answer: C

166) $-\frac{1}{5} + \frac{3}{5}$

A) $-\frac{4}{5}$ B) $\frac{4}{5}$ C) $-\frac{2}{5}$ D) $\frac{2}{5}$

Answer: D

167) $-\frac{3}{10} + (-\frac{7}{10})$

A) $-\frac{2}{5}$ B) $\frac{2}{5}$ C) -1 D) 1

Answer: C

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168) $\frac{11}{40} + (-\frac{11}{40})$

A) $\frac{11}{20}$ B) $\frac{11}{10}$ C) $-\frac{11}{20}$ D) 0

Answer: D

169) $-\frac{1}{3} + (-\frac{1}{3})$

A) $-\frac{2}{3}$ B) 0 C) – 1 D) $-\frac{1}{3}$

Answer: A

170) 3 + (–9) + (–8)

A) –14 B) 20 C) 4 D) 2

Answer: A

171) –3 + 11 + (–15)

A) 23 B) –7 C) 29 D) –1

Answer: B

172) 21 + (–15) + 14

A) 22 B) 50 C) 20 D) –8

Answer: C

173) $-|3| + |2|$

A) 5 B) –5 C) –1 D) 1

Answer: C

174) $|-13| + 39$

A) –26 B) 26 C) 52 D) –52

Answer: C

175) $|9 + (-18)|$

A) –162 B) –9 C) 27 D) 9

Answer: D

176) $|34 + (-54)| + |-10|$

A) 0 B) –58 C) 30 D) 58

Answer: C

177) [15 + (–2)] + [19 + (–8)]

A) 24 B) –14 C) 2 D) 44

Answer: A

178) –5 + [6 + (–13) + 24]

A) –26 B) 48 C) 12 D) –36

Answer: C

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179) $-1.6 + [0.8 + (-0.1) + 0.7]$

A) 3.4 B) −0.2 C) 0 D) 3

Answer: B

180) Find the sum of −38 and 44.

A) −6 B) −82 C) 6 D) 82

Answer: C

Find the additive inverse or opposite.

181) 23

A) 0 B) 23 C) −23 D) $\frac{1}{23}$

Answer: C

182) −23

A) 23 B) −23 C) $-\frac{1}{23}$ D) 0

Answer: A

183) 0

A) 1 B) −1

C) 0 D) no additive inverse or opposite

Answer: C

184) $\frac{6}{7}$

A) $\frac{7}{6}$ B) $-\frac{7}{6}$ C) $\frac{6}{7}$ D) $-\frac{6}{7}$

Answer: D

185) $-\frac{8}{3}$

A) $\frac{8}{3}$ B) $\frac{3}{8}$ C) $-\frac{8}{3}$ D) $-\frac{3}{8}$

Answer: A

186) $|13|$

A) 0 B) 13 C) −13 D) $\frac{1}{13}$

Answer: C

187) $|-18|$

A) −18 B) $-\frac{1}{18}$ C) 0 D) 18

Answer: A

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Simplify the expression.

188) $-|-10|$

A) 10 B) $-\frac{1}{10}$ C) 0 D) –10

Answer: D

189) $-(-4)$

A) $\frac{1}{4}$ B) –4 C) 4 D) 1

Answer: C

190) $-(-8.2)$

A) –8.2 B) 8.2 C) –1 D) 0

Answer: B

191) $-(-9x)$

A) $-9x$ B) $9x$ C) 9 D) –9

Answer: B

192) $\left|-\frac{5}{13}\right|$

A) $\frac{5}{13}$ B) $-\frac{13}{5}$ C) 0 D) $-\frac{5}{13}$

Answer: A

193) $-\left|-\frac{1}{5}\right|$

A) $-\frac{1}{5}$ B) $\frac{1}{5}$ C) – 5 D) 0

Answer: A

Evaluate the expression for the given replacement values.

194) $x + y$ for $x = -89$ and $y = -26$

A) –115 B) –63 C) 63 D) 115

Answer: A

195) $x + y$ for $x = 46$ and $y = -21$

A) 25 B) 67 C) –25 D) –67

Answer: A

196) $2x + y$ for $x = 8$ and $y = -9$

A) 17 B) 7 C) –1 D) 25

Answer: B

197) $2x + y$ for $x = 3$ and $y = -11$

A) –8 B) –5 C) 17 D) 14

Answer: B

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Translate the phrase; then simplify.

198) Find the sum of 58 and –3.

A) –55 B) 61 C) –61 D) 55

Answer: D

199) Find the sum of –61 and –79.

A) 18 B) 140 C) –18 D) –140

Answer: D

200) Find the sum of 18, 15, and –6.

A) 9 B) 39 C) 27 D) –3

Answer: C

201) Find the sum of –17, 16, and –20.

A) –21 B) 13 C) 53 D) 19

Answer: A

Solve the problem.

202) Lauren scored 20 points in her basketball game on Monday, 12 on Wednesday, 9 on Friday, and 6 on Saturday. Find her total points scored for the week.

A) 48 points B) 46 points C) 47 points D) 41 points

Answer: C

203) The Neighborhood Lemonade Stand, Inc. reported net incomes of –$175, –$284, and –$250 for the past three years. What was its total net income for these three years?

A) –$709 B) –$534 C) $709 D) –$459

Answer: A

204) On part of a scenic tour of underground caves, Dave and Neil started at an elevation of – 56 feet. They then rose 18 feet. What was their elevation at this point?

A) –74 ft B) 38 ft C) 74 ft D) –38 ft

Answer: D

205) At the start of a chemistry experiment, Sarah measured the temperature of a liquid to be –4°C. At the end of the experiment, it had risen 39°C. What was the liquid's temperature at the end of the experiment?

A) –35°C B) 35°C C) 43°C D) –43°C

Answer: B

206) It took three assembly–line workers 4.02 seconds, 5.522 seconds, and 4.4 seconds to assemble a product. How many seconds in all did they work?

A) 5.902 sec B) 9.542 sec C) 13.942 sec D) 8.42 sec

Answer: C

207) In four rounds of a card game, you get scores of –3, –2, –9, and 7. What is your final score?

A) 7 B) –7 C) 15 D) –15

Answer: B

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208) A bike road race starts at an elevation of 980 feet and passes through 5 stages where the elevation changes by 372 feet, –436 feet, –528 feet, –245 feet, and –240 feet. At what elevation does the race end?

A) –2801 ft B) –97 ft C) 559 ft D) 2801 ft

Answer: B

Subtract.

209) –4 – 14

A) 18 B) 10 C) –10 D) –18

Answer: D

210) 10 – 11

A) 21 B) –1 C) –21 D) 1

Answer: B

211) 11 – (–6)

A) 17 B) 5 C) –17 D) –5

Answer: A

212) –14 – (–12)

A) –26 B) 26 C) –2 D) 2

Answer: C

213) 6 – (–10)

A) 4 B) –16 C) –4 D) 16

Answer: D

214) –19 – (–12)

A) 7 B) –7 C) 31 D) –31

Answer: B

215) –18 – 14

A) –32 B) 4 C) 32 D) –4

Answer: A

216) 44 – (–49)

A) –5 B) –93 C) 5 D) 93

Answer: D

217) –25 – (–36)

A) –61 B) 11 C) 61 D) –11

Answer: B

218) –32 – 49

A) –81 B) –17 C) 81 D) 17

Answer: A

219) –19 – (–19)

A) 38 B) –19 C) 19 D) 0

Answer: D

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220) 12 – (–12)

A) 0 B) –24 C) –12 D) 24

Answer: D

221) $-\frac{3}{4}-\frac{5}{8}$

A) $-\frac{1}{4}$ B) $-\frac{11}{8}$ C) $\frac{11}{8}$ D) – 1

Answer: B

222) $-\frac{3}{4}-\left(-\frac{5}{8}\right)$

A) – 1 B) $-\frac{1}{8}$ C) $\frac{1}{8}$ D) $-\frac{1}{4}$

Answer: B

223) $-\frac{3}{5}-\left(\frac{1}{10}\right)$

A) $-\frac{2}{25}$ B) $\frac{7}{10}$ C) $\frac{2}{5}$ D) $-\frac{7}{10}$

Answer: D

224) $\frac{1}{4}-\left(-\frac{1}{32}\right)$

A) $\frac{9}{32}$ B) $-\frac{1}{16}$ C) $\frac{1}{128}$ D) $-\frac{9}{32}$

Answer: A

225) –9.4 – 3.9

A) 13.3 B) –5.5 C) –13.3 D) 5.5

Answer: C

226) –13.2 – (–7.7)

A) 20.9 B) 5.5 C) –5.5 D) –20.9

Answer: C

227) 0.30 – (–0.11)

A) 0.41 B) 0.19 C) 0.51 D) 0.033

Answer: A

228) 0 – 5.13

A) –5 B) –5.13 C) 0 D) 5.13

Answer: B

229) 0 – (–7.02)

A) 0 B) 7.02 C) 7 D) –7.02

Answer: B

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Write the phrase as an expression and simplify.

230) Subtract –3 from 7.

A) –4 B) 4 C) 10 D) –10

Answer: C

231) Subtract –2 from 10.

A) 8 B) 12 C) –8 D) –12

Answer: B

232) Subtract 6 from –7.

A) 1 B) –13 C) –1 D) 13

Answer: B

233) Subtract 8 from 6.

A) 2 B) 14 C) –14 D) –2

Answer: D

234) Find the difference between –10 and –8.

A) 2 B) –2 C) –18 D) 18

Answer: B

235) Decrease –24 by 4.

A) 28 B) –20 C) 20 D) –28

Answer: D

236) Decrease 18 by –21.

A) –39 B) 39 C) 3 D) –3

Answer: B

Simplify the expression. (Remember the order of operations.)

237) (–6 + 8) – [(–20) – (–11)]

A) –5 B) 7 C) 11 D) –29

Answer: C

238) [19 – (–20)] – [18 + (–6)]

A) –23 B) –15 C) 27 D) 23

Answer: C

239) 1 + (–13) – (–6)

A) 8 B) –6 C) –18 D) 6

Answer: B

240) 5 – (–14) + (–15)

A) –4 B) –24 C) 4 D) 6

Answer: C

241) 19 – (–5) + 16 + (–12)

A) 42 B) –42 C) 28 D) 4

Answer: C

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242) $(5 - 3)(2 + 8) - 8^2$

A) 10 B) 84 C) −44 D) 64

Answer: C

243) $|-8| - 2^2 - (-9 - 9)$

A) 6 B) −14 C) 4 D) 22

Answer: D

Evaluate the expression when x = 5, y = –2, and t = 8.

244) $x - y$

A) 3 B) −7 C) −3 D) 7

Answer: D

245) $\frac{18 - x}{y + 1}$

A) − 10 B) − 13 C) $\frac{23}{3}$ D) undefined

Answer: B

246) $|y| + 2x - 2t$

A) −8 B) 28 C) 8 D) −4

Answer: D

247) $t^2 - 3y$

A) 10 B) 70 C) 22 D) 58

Answer: B

248) $|x + t - 5y|$

A) 23 B) 37 C) 2 D) 3

Answer: A

249) $\frac{|x + 17|}{4t}$

A) $\frac{3}{8}$ B) $\frac{85}{32}$ C) $\frac{11}{16}$ D) $-\frac{25}{8}$

Answer: C

Decide whether the given number is a solution of the given equation.

250) $x - 8 = 2;\ -6$

A) solution B) not a solution

Answer: B

251) $-x - 5 = -7;\ 2$

A) solution B) not a solution

Answer: A

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252) $-3 = 7 - x;\ -8$

A) solution B) not a solution

Answer: B

253) $-x - 1 = -x - 8;\ -3$

A) solution B) not a solution

Answer: B

254) $-6 - x = -1;\ -5$

A) not a solution B) solution

Answer: B

Solve.

255) The price of a stock rose 2 points, fell 11 points, and again fell 13 points. What was the stock's total change?

A) –26 points B) 26 points C) 4 points D) –22 points

Answer: D

256) Sean has $570 in his savings account. After he withdraws $51, what will his balance be?

A) –$519 B) $621 C) –$621 D) $519

Answer: D

257) Mariel the Magician died in the year 19 A.D. at the age of 52. In what year was she born?

A) 71 A.D. B) 71 B.C. C) 33 B.C. D) 33 A.D.

Answer: C

258) Trader Tower stands at 2543 feet high. Exchange Emporium is 888 feet tall. How much taller is Trader Tower than Exchange Emporium?

A) 3431 feet B) –3431 feet C) –1655 feet D) 1655 feet

Answer: D

259) In a game of cards, Lindsey won 2 chips, lost 8 chips, won 4 chips, and lost 13 chips. What was her final count of chips?

A) –15 chips B) 11 chips C) 27 chips D) –23 chips

Answer: A

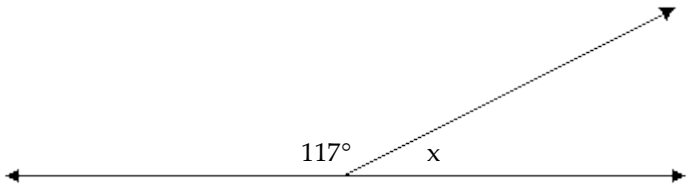
260) The temperature at 5:00 was –2°C. Four hours later, it was –10°C. What was the change in temperature?

A) 12°C B) 8°C C) –12°C D) –8°C

Answer: D

Find the unknown complementary or supplementary angle.

261)

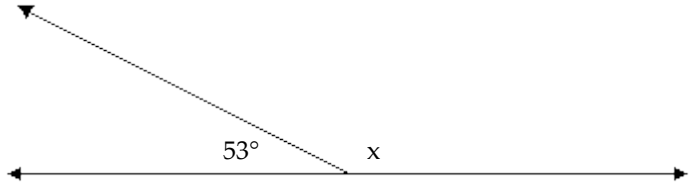


A) 63° B) 73° C) 58° D) 53°

Answer: A

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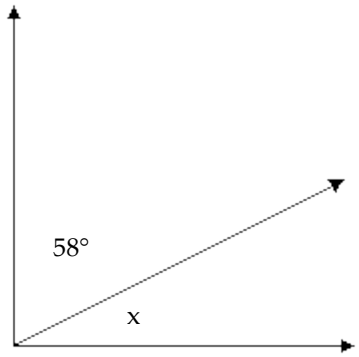
262)



A) 127° B) 117° C) 137° D) 122°

Answer: A

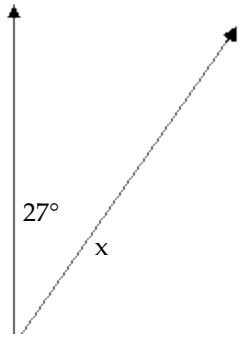
263)



A) 22° B) 42° C) 27° D) 32°

Answer: D

264)



A) 58° B) 63° C) 53° D) 73°

Answer: B

Multiply.

265) –4(9)

A) –36 B) –45 C) –136 D) –360

Answer: A

266) 4(–2)

A) –108 B) –80 C) –12 D) –8

Answer: D

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267) 4(–4)

A) –32 B) 16 C) –16 D) –6

Answer: C

268) $-4 \cdot 3$

A) –15 B) –112 C) –120 D) –12

Answer: D

269) $-\frac{56}{45}\left(\frac{5}{8}\right)$

A) $-1\frac{11}{45}$ B) $1\frac{1}{8}$ C) $-\frac{7}{9}$ D) $\frac{7}{9}$

Answer: C

270) $\frac{23}{4}(-8)$

A) – 46 B) $-\frac{31}{4}$ C) $\frac{184}{3}$ D) $\frac{31}{3}$

Answer: A

271) $-\frac{1}{5}\left(-\frac{6}{5}\right)$

A) $-\frac{2}{5}$ B) $\frac{24}{25}$ C) $-\frac{1}{10}$ D) $\frac{6}{25}$

Answer: D

272) 3.9(–3.22)

A) 7.12 B) –12.558 C) 7.22 D) 0.68

Answer: B

273) –2.8(–13)

A) 15.8 B) –15.8 C) 36.4 D) –10.2

Answer: C

Evaluate.

274) (–1)(–3)(–5)

A) –30 B) –9 C) 15 D) –15

Answer: D

Perform the indicated operations.

275) (–5)(5)(–4)(–5)

A) 500 B) –9 C) 100 D) –500

Answer: D

276) (–6)(–9)(0)(5)

A) –45 B) 270 C) –270 D) 0

Answer: D

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277) $(-8)^2$

A) 64 B) –16 C) 16 D) –64

Answer: A

278) $(-7)^3$

A) 49 B) 343 C) –343 D) –49

Answer: C

279) -4^2

A) –16 B) 8 C) 16 D) –8

Answer: A

280) -6^3

A) –216 B) 18 C) 216 D) –18

Answer: A

281) $\left(-\frac{1}{5}\right)^2$

A) $\frac{1}{25}$ B) $-\frac{1}{25}$ C) $\frac{1}{7}$ D) $-\frac{1}{10}$

Answer: A

Evaluate.

282) -0.6^2

A) –3.6 B) 0.036 C) –0.36 D) 0.36

Answer: C

Find the reciprocal, if it exists.

283) –14

A) $-\frac{1}{14}$ B) 14 C) $\frac{1}{14}$ D) 1

Answer: A

284) $\frac{1}{18}$

A) 1 B) $-\frac{1}{18}$ C) 18 D) –18

Answer: C

285) $\frac{8}{5}$

A) 1 B) $\frac{5}{8}$ C) $-\frac{8}{5}$ D) $-\frac{5}{8}$

Answer: B

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286) $-\frac{4}{3}$

A) $-\frac{3}{4}$ B) 1 C) $\frac{4}{3}$ D) $\frac{3}{4}$

Answer: A

287) $-\frac{38}{9}$

A) $-\frac{9}{38}$ B) 1 C) $\frac{9}{38}$ D) $\frac{38}{9}$

Answer: A

288) 0.2

A) $\frac{1}{0.2}$ B) $-\frac{1}{0.2}$ C) −0.2 D) no reciprocal

Answer: A

289) 3.9

A) $-\frac{1}{3.9}$ B) −3.9 C) $\frac{1}{3.9}$ D) no reciprocal

Answer: C

290) 0

A) 0 B) −1 C) 1 D) no reciprocal

Answer: D

Divide.

291) $\frac{-15}{3}$

A) −4 B) −5 C) −6 D) 5

Answer: B

292) $\frac{12}{-3}$

A) −4 B) −5 C) 4 D) −3

Answer: A

293) $\frac{-40}{-5}$

A) −9 B) 8 C) −7 D) −8

Answer: B

294) $-36 \div 4$

A) 9 B) −8 C) −9 D) −10

Answer: C

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295) $20 \div (-5)$

A) -5 B) -4 C) 5 D) 4

Answer: B

296) $-207 \div (-9)$

A) -23 B) 23 C) 13 D) $\frac{1}{23}$

Answer: B

297) $-184 \div 8$

A) $-\frac{1}{23}$ B) 23 C) -23 D) -33

Answer: C

298) $\frac{0}{-14}$

A) -14 B) 1 C) 0 D) undefined

Answer: C

299) $\frac{93}{0}$

A) 1 B) 93 C) 0 D) undefined

Answer: D

300) $\frac{2}{3} \div \left(-\frac{7}{9}\right)$

A) $\frac{6}{7}$ B) $-\frac{6}{7}$ C) $\frac{7}{6}$ D) $-\frac{14}{27}$

Answer: B

301) $-\frac{1}{2} \div \left(-\frac{6}{13}\right)$

A) $-\frac{3}{13}$ B) $-\frac{13}{12}$ C) $\frac{12}{13}$ D) $\frac{13}{12}$

Answer: D

302) $-\frac{13}{11} \div \left(-\frac{6}{9}\right)$

A) $-\frac{39}{22}$ B) $\frac{26}{33}$ C) $\frac{39}{22}$ D) $-\frac{26}{33}$

Answer: C

303) $-\frac{3}{16} \div \left(-\frac{16}{3}\right)$

A) -1 B) $-\frac{9}{256}$ C) 1 D) $\frac{9}{256}$

Answer: D

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304) $-1.6 \div -0.2$

A) -1.4 B) -8 C) 14 D) 8

Answer: D

305) $-3.5 \div 0.07$

A) -50 B) -3.43 C) 50 D) 34.3

Answer: A

306) $-0.8 \div 0.04$

A) -20 B) -7.6 C) -0.76 D) $\frac{1}{20}$

Answer: A

Evaluate the expression.

307) $\frac{8(3) + 8}{1 - 8(8)}$

A) $\frac{32}{63}$ B) $-\frac{32}{63}$ C) $-\frac{4}{7}$ D) $-\frac{88}{63}$

Answer: B

308) $(-9)(8) - (-13)(7)$

A) 19 B) -163 C) 5 D) -19

Answer: A

309) $(-5 - 8)(-3 + 6) - 7^3$

A) 343 B) 304 C) -382 D) 3

Answer: C

310) $22 - [\,9 - (\,3 - 7)] + (\,4 - 6\,)^3$

A) 25 B) -17 C) 17 D) 1

Answer: D

311) $\frac{5 + (-4)^2 + 2 \cdot 6^2}{2^2 \cdot (4 - 3)}$

A) $\frac{48}{5}$ B) 2 C) $\frac{93}{4}$ D) 1

Answer: C

312) $\frac{(-2) \cdot (6 - 3) + (-2) \cdot 4}{(-2) \cdot (8 - 4)}$

A) $\frac{11}{3}$ B) 2 C) $\frac{7}{4}$ D) 0

Answer: C

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313) $\frac{|10(-2)| - |1 - 7|}{|2(10)|}$

A) $-\frac{7}{10}$ B) $-\frac{13}{10}$ C) $\frac{13}{10}$ D) $\frac{7}{10}$

Answer: D

314) $\frac{|-3| + |-3 + 7|}{9}$

A) $\frac{7}{9}$ B) $\frac{1}{9}$ C) $-\frac{7}{9}$ D) $-\frac{1}{9}$

Answer: A

Evaluate the expression for the given values.

315) $\frac{9x + 12y}{x - 2}$ for $x = -4$, $y = -2$

A) −10 B) 10 C) 2 D) 15

Answer: B

Decide whether the given number is a solution of the equation.

316) $2x = -6;\ -3$

A) solution B) not a solution

Answer: A

317) $-5x + 7 = -8;\ 3$

A) solution B) not a solution

Answer: A

318) $-8x - 5 = x + 8;\ 4$

A) solution B) not a solution

Answer: B

319) $\frac{x - 3}{16} = -12;\ -189$

A) solution B) not a solution

Answer: A

320) $2 = \frac{-2}{x};\ -1$

A) not a solution B) solution

Answer: B

321) $\frac{x}{9} + 3 = -2;\ -36$

A) solution B) not a solution

Answer: B

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322) $\frac{8}{x} = -4;\ -2$

A) solution B) not a solution

Answer: A

323) $\frac{x}{3} = -6;\ 18$

A) not a solution B) solution

Answer: A

Translate the phrase to an algebraic expression. Use x to represent "a number."

324) The product of 3 and a number

A) $3 \cdot x$ or $3x$ B) $3 \div x$ or $\frac{3}{x}$ C) $3 + x$ D) $-3 \cdot x$ or $-3x$

Answer: A

325) The quotient of −36 and a number

A) $\frac{-36}{x}$ or $-36 \div x$ B) $\frac{x}{-36}$ or $x \div -36$ or C) $-36 \cdot x$ or $-36\,x$ D) $-36 - x$

Answer: A

326) Divide a number by −18.

A) $x - (-18)$ B) $-18 \cdot x$ or $-18x$ C) $x \div (-18)$ or $\frac{x}{-18}$ D) $-18 \div x$ or $\frac{-18}{x}$

Answer: C

327) Multiply a number by −10.

A) $x \div (-10)$ or $\frac{x}{-10}$ B) $-10 + x$ C) $(-10) \div x$ or $\frac{-10}{x}$ D) $x \cdot (-10)$ or $-10x$

Answer: D

Solve the problem.

328) A football team lost 7 yards on each of two consecutive plays. Represent the total loss as product of signed numbers and find the total loss.

A) $2 + (-7) = -5$; a loss of 5 yd B) $7 - 2 = 5$; a loss of 5 yd

C) $2 \cdot (-7) = -16$; a loss of 16 yd D) $2 \cdot (-7) = -14$; a loss of 14 yd

Answer: D

Use a commutative property to complete the statement.

329) $6 + x =$

A) $-x - 6$ B) $6 - x$ C) $x - 6$ D) $x + 6$

Answer: D

330) $-12 \cdot x =$

A) $x - (12)$ B) $12 \cdot x$ C) $x \cdot (-12)$ D) $12 - x$

Answer: C

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331) $xb =$

A) bx B) $b + x$ C) $\frac{1}{xb}$ D) $-xb$

Answer: A

332) $7x + 14 =$

A) $-7x + 14$ B) $14 + 7x$ C) $7x - 14$ D) $14x + 7$

Answer: B

Use an associative property to complete the statement.

333) $(4x + 4y) + 2z =$

A) $4x + (4y + 2z)$ B) $4x + 4y + 2z$ C) $(4y + 4x) + 2z$ D) $(4x + 4y + 2z)$

Answer: A

334) $2 \cdot (cy) =$

A) $(cy) \cdot 2$ B) $(2c) \cdot y$ C) $2 \cdot (yc)$ D) $2 + (cy)$

Answer: B

Use the commutative and associative properties to simplify the expression.

335) $-6 + (5x - 2)$

A) $12 + 5x$ B) $-8 + 5x$ C) $-8x - 2$ D) $-18x$

Answer: B

336) $\frac{4}{5}(20y)$

A) $-16y$ B) $20y$ C) $16y$ D) $9y$

Answer: C

337) $\frac{9}{11}\left(\frac{11}{9}t\right)$

A) $\frac{81}{121}t$ B) $\frac{11}{9}t$ C) $\frac{202}{99}t$ D) t

Answer: D

338) $-2(5y)$

A) $3y$ B) $-10y$ C) $-10 + y$ D) $10y$

Answer: B

Use the distributive property to rewrite the algebraic expression without parentheses. Then simplify the result, if possible.

339) $-3(x + y)$

A) $-3x - 3y$ B) $-3x + y$ C) $-3x + 3y$ D) $-3xy$

Answer: A

340) $3(x + 7)$

A) $x + 21$ B) $3x + 10$ C) $3x + 7$ D) $3x + 21$

Answer: D

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341) 5(x – 3)

A) 5x – 3 B) 5x – 15 C) 5x + 15 D) 5x – 8

Answer: B

342) 6(3x + 8)

A) 18x + 8 B) 18x + 48 C) 9x + 14 D) 66x

Answer: B

343) 3(5x – 10)

A) 8x – 13 B) 15x – 10 C) 45x D) 15x – 30

Answer: D

344) 2(5 – 3y)

A) 16y B) 10 – 6y C) 7 – 5y D) 10 – 3y

Answer: B

345) –4(x + 3)

A) –4x + 3 B) –4x – 12 C) –4x + 12 D) x – 12

Answer: B

346) $\frac{1}{4}(12x - 8)$

A) 3x – 2 B) 48x – 32 C) 3x – 8 D) x

Answer: A

347) $-\frac{3}{7}(7x - 21)$

A) 6x B) 3x – 9 C) –3x + 9 D) –3x – 9

Answer: C

348) –(r – 8t)

A) r + 8t B) –r + 8t C) r – 8t D) –r – 8t

Answer: B

349) – (–2m + 2n – 9p)

A) 2m – 2n + 9p B) –2m + 2n – 9p C) 2m – 2n – 9p D) –2m + 2n + 9p

Answer: A

350) 5(5r + 8 + 9s)

A) 25r + 8 + 9s B) 25r + 40 + 9s C) 25r + 40 + 45s D) 25r + 8 + 45s

Answer: C

351) 2(x + 6y + 3)

A) 2x + 12y + 6 B) 2x + 12y + 3 C) 2x – 12y – 6 D) 2x + 6y + 3

Answer: A

352) 12(4z + 6) – 2

A) 48z + 70 B) 48z + 48 C) 16z + 16 D) 48z + 4

Answer: A

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353) $6x - 2(7y - 12)$

A) $6x - 14y - 24$ B) $6x - 14y - 12$ C) $6x - 14y + 12$ D) $6x - 14y + 24$

Answer: D

354) $-3.3(6.2x - 2.1y - 1.1)$

A) $-20.46x + 6.93y - 1.1$ B) $-20.46x + 6.93y + 3.63$

C) $-20.46x - 6.93y - 3.63$ D) $-20.46x - 2.1y - 1.1$

Answer: B

Use the distributive property to write the sum as a product.

355) $10 \cdot 1 + 10 \cdot x$

A) $11(x)$ B) $(10x)$ C) $(10 + 10x)$ D) $10(1 + x)$

Answer: D

356) $16 \cdot z + 16 \cdot 9$

A) $(144z)$ B) $(25z)$ C) $(16z + 144)$ D) $16(z + 9)$

Answer: D

357) $(-1) \cdot 3 + (-1) \cdot f$

A) $-1(3f)$ B) $1(3 + f)$ C) $-1(3 + f)$ D) $-1(3 - f)$

Answer: C

358) $(-3)c + (-3)r$

A) $-3(c + r)$ B) $-3(c - r)$ C) $3(c + r)$ D) $3(c - r)$

Answer: A

359) $(3)b + (3)q$

A) $3(b + q)$ B) $3(b \cdot q)$ C) $6(b + q)$ D) $3(b - q)$

Answer: A

Identify the property illustrated by the statement.

360) $(1 + 6) + 3 = (6 + 1) + 3$

A) commutative property of addition B) additive inverse property

C) distributive property D) associative property of addition

Answer: A

361) $3 + 1 = 1 + 3$

A) associative property of addition B) identity element for addition

C) commutative property of addition D) distributive property

Answer: C

362) $(5 \cdot 3) \cdot 2 = 5 \cdot (3 \cdot 2)$

A) identity element for multiplication B) distributive property

C) commutative property of multiplication D) associative property of multiplication

Answer: D

363) $8 \cdot 5 = 5 \cdot 8$

A) associative property of multiplication B) identity element for multiplication

C) commutative property of multiplication D) distributive property

Answer: C

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364) $9 + (17 + 12) = (9 + 17) + 12$

A) commutative property of addition
B) identity element for addition
C) associative property of addition
D) distributive property

Answer: C

365) $4(x + 5) = 4x + 4 \cdot 5$

A) identity element for multiplication
B) distributive property
C) commutative property of addition
D) associative property of multiplication

Answer: B

366) $7 \cdot 1 = 7$

A) commutative property of multiplication
B) identity element for multiplication
C) multiplicative inverse property
D) distributive property

Answer: B

367) $6 + 0 = 6$

A) identity element for addition
B) distributive property
C) associative property for addition
D) commutative property for addition

Answer: A

368) $7 + (-7) = 0$

A) commutative property of addition
B) associative property of addition
C) additive inverse property
D) identity element for addition

Answer: C

369) $\frac{1}{7} \cdot 7 = 1$

A) identity element for multiplication
B) associative property of multiplication
C) distributive property
D) multiplicative inverse property

Answer: D

Identify the numerical coefficient of the term.

370) x

A) 1
B) –1
C) 0
D) x

Answer: A

371) –3y

A) y
B) 3y
C) –3
D) 3

Answer: C

372) –13x

A) 1
B) 0
C) –13
D) 13

Answer: C

373) $-13y^2$

A) 2
B) –13
C) 13
D) y^2

Answer: B

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374) $-10y^3x^6$

A) 10 B) –10 C) –10, 3, 6 D) 3, 6

Answer: B

375) mn^2

A) m B) 0 C) 1 D) –1

Answer: C

376) 7xyz

A) 0 B) 7 C) 1 D) –1

Answer: B

377) –v

A) 0 B) 1 C) v D) –1

Answer: D

Determine whether the terms are like or unlike.

378) 8z, –14z

A) like B) unlike

Answer: A

379) $15a^8$, $15a^6$

A) like B) unlike

Answer: B

380) 2m, 3m, –14m

A) like B) unlike

Answer: A

381) 15b, 11, 14a

A) like B) unlike

Answer: B

382) $25xy^3z$, $-17xy^2$

A) like B) unlike

Answer: B

383) ab, 9ba

A) like B) unlike

Answer: A

384) 3, 9, –4

A) like B) unlike

Answer: A

Simplify the expression by combining like terms.

385) 8x – 3x

A) 11x B) –24x C) 5 + x D) 5x

Answer: D

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386) $3b - 8b$

A) $-5b$ B) $5b$ C) $-11b$ D) $-5b^2$

Answer: A

387) $2y - y - 9y$

A) $-7y$ B) $-7y - y$ C) $-8y$ D) $-6y$

Answer: C

388) $8x - 12x + x$

A) $-4x$ B) $-5x$ C) $-3x$ D) $-4x + x$

Answer: C

389) $6b - 4b + 2$

A) $-2b + 2$ B) $4b$ C) $2b + 2$ D) $10b + 2$

Answer: C

390) $6x - 5 - 4x + 6$

A) $10x + 1$ B) $2x + 1$ C) 3 D) $3x$

Answer: B

391) $9a - 6a - a - 12$

A) $3a - 13$ B) $3a - a - 12$ C) $3a - 12$ D) $2a - 12$

Answer: D

392) $11x + x - 3x + x$

A) $10x$ B) $-x^2 + 8x$ C) $8x$ D) $x^2 + 8x$

Answer: A

393) $-9y + 3 - 7 + 5 + y - 1$

A) $-10y$ B) $-8y - 1$ C) $-10y + 1$ D) $-8y$

Answer: D

394) $9x + 4 + 3x + x - 8$

A) $12x + 4$ B) $13x - 4$ C) $11x - 4$ D) $12x - 4$

Answer: B

395) $6x^3 + 4x^3$

A) $10x^6$ B) $10x^3$ C) $9x^3$ D) $10x^9$

Answer: B

396) $9y^7 + 14y^7$

A) $-5y^7$ B) $23y^{14}$

C) Cannot be simplified D) $23y^7$

Answer: D

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397) $-1.2x^3 - 1.5x^3 - 0.4x^3$

A) Cannot be simplified
B) $-3.1x^3$
C) $-15x^3$
D) $-4.3x^3$

Answer: B

398) $-0.9y - 1 + 2y - 1.1$

A) $-0.9y + 2y - 1 - 1.1$
B) $1.1y - 2.1$
C) -1
D) $-1.8y + 1.1$

Answer: B

399) $5.2k - 1.6 - 3.8k + 3 + 2.9k$

A) $11.9k + 1.4$
B) $4.3k + 1.4$
C) $4.3k + 4.6$
D) $4.3k - 1.4$

Answer: B

Simplify the expression. Use the distributive property to remove any parentheses.

400) $4(y + 6)$

A) $y + 24$
B) $4y + 10$
C) $4y + 6$
D) $4y + 24$

Answer: D

401) $-5(r + 7)$

A) $-5r - 35$
B) $-5r - 7$
C) $r - 35$
D) $-5r + 35$

Answer: A

402) $9(3n + 7)$

A) $27n + 7$
B) $27n + 63$
C) $12n + 16$
D) $90n$

Answer: B

403) $-2(9x + 5)$

A) $7x + 3$
B) $-28x$
C) $-18x - 10$
D) $-18x + 5$

Answer: C

404) $2(6x + 5y + 4)$

A) $12x + 10y + 8$
B) $12x + 10y + 4$
C) $12x + 5y + 4$
D) $12x + 5y + 8$

Answer: A

405) $-(-7m + 5n - 9)$

A) $7m - 5n + 9$
B) $-7m + 5n + 9$
C) $7m - 5n - 9$
D) $-7m + 5n - 9$

Answer: A

406) $-(2x - 7z + 3)$

A) $-2x - 7z + 3$
B) $-2x + 7z + 3$
C) $-2x + 7z - 3$
D) $-2x - 7z - 3$

Answer: C

Remove parentheses and simplify the expression.

407) $2 + 7(3 - 4m)$

A) $-4m + 23$
B) $28m + 23$
C) $-28m + 23$
D) $-28m + 21$

Answer: C

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408) $7(y + 10) - 4$

A) $17y - 4$ B) $7y + 42$ C) $7y + 66$ D) $7y + 6$

Answer: C

409) $(8z + 10) - (3z - 7)$

A) $5z + 17$ B) $5z + 3$ C) $5z - 17$ D) $11z + 17$

Answer: A

410) $-7(10r + 4) + 3(7r + 5)$

A) $-49r - 13$ B) $-49r + 4$ C) $-98r$ D) $3r - 3$

Answer: A

411) $-6(2x - 7) - 4x + 8$

A) $-16x - 34$ B) $8x + 50$ C) $16x + 50$ D) $-16x + 50$

Answer: D

412) $[5(x - 3) - 8] + [5(x - 1) + 5]$

A) $10x - 23$ B) $10x - 11$ C) $10x - 8$ D) $5x - 28$

Answer: A

413) $(2x - 5y + 7) - 2(-2x + 5y - 7)$

A) $-4x + 10y - 14$ B) $-6x + 15y - 21$ C) $4x - 10y + 14$ D) $6x - 15y + 21$

Answer: D

414) $\frac{5}{2}(-6y - 4x + 10z)$

A) $-15y - 4x + 10z$ B) $-15y - 10x - 25z$ C) $-15y + 10x + 25z$ D) $-15y - 10x + 25z$

Answer: D

415) $-\frac{2}{7}(z - 15) - \frac{1}{14}z$

A) $\frac{5}{14}z + \frac{30}{7}$ B) $-\frac{5}{14}z + \frac{30}{7}$ C) $\frac{5}{14}z - \frac{30}{7}$ D) $\frac{3}{14}z + 15$

Answer: B

416) $-5.9(10r + 6) + 3.9(10r + 9)$

A) $-20r - 0.3$ B) $-94.4r$ C) $4.1r + 0.1$ D) $-20r + 6$

Answer: A

Perform the indicated operation. Don't forget to simplify if possible.

417) Add $7x - 9$ to $2x - 4$

A) $9x + 13$ B) $5x - 13$ C) $9x - 13$ D) $9x + 5$

Answer: C

418) Add $6x + 8$ to $3x - 7$

A) $9x - 15$ B) $9x + 1$ C) $9x + 15$ D) $3x + 1$

Answer: B

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419) Subtract $6x + 3$ from $4x - 15$

A) $-2x + 12$ B) $-2x - 18$ C) $2x + 18$ D) $10x - 12$

Answer: B

420) Subtract $3x - 6$ from $7x + 3$

A) $4x + 9$ B) $-4x - 9$ C) $10x - 3$ D) $4x - 9$

Answer: A

Write the phrase as an algebraic expression and simplify if possible. Let x represent the unknown number.

421) The product of 6 and a number, added to 3.

A) $18x$ B) $18 + x$ C) $3 + 6x$ D) $6 + 3x$

Answer: C

422) Five times a number, decreased by 66.

A) $5x + 66$ B) $5(x - 66)$ C) $5(x + 66)$ D) $5x - 66$

Answer: D

423) The quotient of 33 and the product of a number and -5.

A) $\frac{33}{-5x}$ B) $\frac{-5x}{33}$ C) $-165x$ D) $\frac{33}{x} - 5$

Answer: A

424) The product of -29 and the sum of a number and 12.

A) $-348x$ B) $-29(x + 12)$ C) $-29 + 12x$ D) $-29x + 12$

Answer: B

425) Ten times the sum of a number and -15.

A) $10+ x + (-15)$ B) $10(x + (-15))$ C) $10x - (-15)$ D) $10x + (-15)$

Answer: B

426) The quotient of 28 times a number and -5.

A) $\frac{28x}{-5}$ B) $\frac{1}{-140x}$ C) $28x + 5$ D) $28x - 5$

Answer: A

427) Seven times a number, increased by nine.

A) $7 + 9x$ B) $7x + 9$ C) $7x - 9$ D) $7x + 63$

Answer: B

428) The difference of ten and a number, divided by two.

A) $10 - \frac{x}{2}$ B) $\frac{10 - x}{2}$ C) $\frac{x}{2} - 10$ D) $\frac{x - 10}{2}$

Answer: B

429) One–half a number, minus six, plus two times the number.

A) $\frac{1}{2}x - 4$ B) $\frac{5}{2}x - 3$ C) $\frac{5}{2}x - 6$ D) $\frac{1}{2}x - 6 + 2x$

Answer: C

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430) The sum of four times a number and –4, and six times a number and 2.
A) 4x + 4 B) 10x + 6 C) 10x – 2 D) 10x – 4
Answer: C

Fill in the blank with one of the words or phrases listed below.

inequality symbols	**exponent**	**term**	**numerical coefficient**
grouping symbols	**solution**	**like terms**	**unlike terms**
equation	**absolute value**	**numerator**	**denominator**
opposites	**base**	**reciprocals**	**variable**

431) The symbols $\neq$, $<$, and $>$ are called _____.
A) unlike terms B) grouping symbols C) like terms D) inequality symbols
Answer: D

432) A mathematical statement that two expressions are equal is called a(n) _____.
A) inequality symbols B) absolute value C) equation D) exponent
Answer: C

433) The _____ of a number is the distance between that number and 0 on the number line.
A) term B) absolute value
C) numerical coefficient D) exponent
Answer: B

434) A symbol used to represent a number is called a(n) _____.
A) base B) numerator C) variable D) denominator
Answer: C

435) Two numbers that are the same distance from 0 but lie on opposite sides of 0 are called _____.
A) unlike terms B) reciprocals C) like terms D) opposites
Answer: D

436) The number in a fraction above the fraction bar is called the _____.
A) exponent B) numerator C) denominator D) base
Answer: B

437) A(n) _____ of an equation is a value for the variable that makes the equation a true statement.
A) term B) solution C) base D) denominator
Answer: B

438) Two numbers whose product is 1 are called _____.
A) reciprocals B) unlike terms C) like terms D) opposites
Answer: A

439) In 2^3, the 2 is called the _____ and the 3 is called the _____.
A) numerator, denominator B) denominator, numerator
C) base, exponent D) exponent, base
Answer: C

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440) The _____ of a term is its numerical factor.

A) absolute value B) solution
C) numerical coefficient D) base

Answer: C

441) The number in a fraction below the fraction bar is called the _____.

A) base B) denominator C) numerator D) exponent

Answer: B

442) Parentheses and brackets are examples of _____.

A) like terms B) inequality symbols C) grouping symbols D) opposites

Answer: C

443) A(n) _____ is a number or the product of a number and variables raised to powers.

A) equation B) solution C) term D) exponent

Answer: C

444) Terms with the same variables raised to the same powers are called _____.

A) like terms B) reciprocals C) opposites D) unlike terms

Answer: A

445) If terms are not like terms, then they are _____.

A) reciprocals B) opposites C) unlike terms D) inequality symbols

Answer: C

Translate the statement into symbols.

446) The absolute value of negative ten is greater than seven.

A) $|-7| > 10$ B) $|-10| > 7$ C) $|10| > 7$ D) $-|10| > 7$

Answer: B

447) The sum of nine and seven is greater than or equal to four.

A) $(9 + 7) \geq 4$ B) $(9 + 7) > 4$ C) $(9 + 7) = 4$ D) $(9 + 9) \leq 4$

Answer: A

Simplify the expression.

448) $-4 + 9$

A) 5 B) -5 C) -13 D) 13

Answer: A

449) $-9 - (-6)$

A) 15 B) -3 C) 3 D) -15

Answer: B

450) $3 \cdot 4 - 5 \cdot 8$

A) -1 B) 52 C) 28 D) -28

Answer: D

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451) $12(-9)$

A) -120 B) -108 C) -208 D) -1080

Answer: B

452) $(7)(-7)$

A) -39 B) -98 C) 49 D) -49

Answer: D

453) $\frac{|-18|}{-9}$

A) -3 B) -1 C) -2 D) 2

Answer: C

454) $\frac{-79}{0}$

A) 1 B) 79 C) 0 D) undefined

Answer: D

455) $\frac{|-9|+2}{5-9}$

A) $\frac{2}{5}$ B) $\frac{11}{4}$ C) $\frac{7}{4}$ D) $-\frac{11}{4}$

Answer: D

456) $\frac{1}{4}-\frac{5}{12}$

A) $-\frac{1}{3}$ B) $-\frac{1}{6}$ C) $\frac{2}{3}$ D) $-\frac{1}{2}$

Answer: B

457) $-2\frac{1}{2}+16\frac{1}{6}$

A) $13\frac{2}{3}$ B) $14\frac{2}{3}$ C) $17\frac{2}{3}$ D) $-2\frac{1}{3}$

Answer: A

458) $-\frac{3}{4}+\frac{15}{7}$

A) $\frac{3}{7}$ B) $\frac{81}{28}$ C) $\frac{39}{28}$ D) $-\frac{39}{28}$

Answer: C

459) $2(-3)^2-70$

A) -76 B) -88 C) -52 D) 52

Answer: C

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460) $3[8(2 - 7) - 4]$

A) −60 B) −52 C) −132 D) −64

Answer: C

461) $\frac{-12 + 4 \cdot 6}{3}$

A) 12 B) −16 C) −4 D) 4

Answer: D

462) $\frac{(-7)(0)(-3)}{-6}$

A) undefined B) 0 C) $-\frac{7}{2}$ D) $\frac{5}{3}$

Answer: B

Insert <, >, or = to make the statement true.

463) −2 _____ 4

A) > B) < C) =

Answer: B

464) −10 _____ 84

A) = B) > C) <

Answer: C

465) $|-9|$ _____ 5

A) < B) > C) =

Answer: B

466) $|-4|$ _____ −3 − (− 7)

A) < B) > C) =

Answer: C

List the numbers in the given set that belong to the indicated set.

467) Given $\left\{14, \sqrt{8}, -21, 0, \frac{0}{16}, \sqrt{16}\right\}$, list the numbers in this set that also belong to the set of Natural numbers.

A) $14, 0, \frac{0}{4}$ B) $14, 0, \sqrt{16}$ C) $14, \sqrt{16}$ D) 14, 0

Answer: C

468) Given $\left\{20, \sqrt{8}, -8, 0, \frac{0}{2}, \sqrt{16}\right\}$, list the numbers in this set that also belong to the set of Whole numbers.

A) 20, −8, 0 B) $20, -8, 0, \sqrt{16}$ C) 20, 0 D) $20, 0, \frac{0}{2}, \sqrt{16}$

Answer: D

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469) Given $\left\{4, \sqrt{8}, -20, 0, \frac{0}{4}, \sqrt{16}\right\}$, , list the numbers in this set that also belong to the set of Integers.

A) 4, 0, $\sqrt{16}$ B) 4, –20, 0, $\frac{0}{4}$, $\sqrt{16}$ C) 4, –20, 0 D) 4, 0

Answer: B

470) Given $\left\{7, \sqrt{5}, -13, 0, \frac{0}{5}, \sqrt{25}, \frac{-2}{0}, 0.76\right\}$, list the numbers in this set that also belong to the set of Rational numbers.

A) 7, 0, $\sqrt{25}$ B) $\sqrt{5}$, $\sqrt{25}$

C) 7, –13, 0, $\frac{0}{5}$, $\sqrt{25}$, 0.76 D) $\sqrt{5}$, $\frac{0}{5}$, 0.76

Answer: C

471) Given $\left\{18, \sqrt{7}, -6, 0, \frac{0}{3}, \sqrt{25}, \frac{-6}{0}, 0.68\right\}$, list the numbers in this set that also belong to the set of Irrational numbers.

A) $\sqrt{7}$, $\frac{-6}{0}$ B) $\sqrt{7}$, $\sqrt{25}$ C) $\sqrt{7}$ D) $\sqrt{7}$, $\sqrt{25}$, 0.68

Answer: C

472) Given $\left\{17, \sqrt{5}, -16, 0, \frac{0}{6}, \sqrt{16}, \frac{-5}{0}\right\}$, list the numbers in this set that also belong to the set of Real numbers.

A) 17, –16, 0, $\frac{0}{6}$, $\frac{-5}{0}$ B) 17, $\sqrt{5}$, –16, 0, $\frac{0}{6}$, $\sqrt{16}$

C) 17, –16, 0, $\sqrt{16}$ D) 17, –16, 0, $\frac{0}{6}$, $\sqrt{16}$

Answer: B

Evaluate the expression for the given replacement values.

473) $x^2 + y^2$ when x = 9 and y = –5

A) 28 B) 106 C) 2025 D) 90

Answer: B

474) x + yz when x = 2, y = –5, and z = –6

A) 28 B) –28 C) 32 D) 18

Answer: C

475) 4 + 3x – y for x = 8 and y = –8

A) 15 B) 64 C) 52 D) 36

Answer: D

476) $\frac{y + z - 4}{x}$ when x = 3, y = –5, and z = 12

A) $-\frac{2}{3}$ B) –1 C) 1 D) $\frac{2}{3}$

Answer: C

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Identify the property illustrated by the statement.

477) $2 + (7 + 12) = (2 + 7) + 12$

A) commutative property of addition
B) associative property of addition
C) identity element for addition
D) distributive property

Answer: B

478) $2 \cdot 8 = 8 \cdot 2$

A) distributive property
B) commutative property of multiplication
C) associative property of multiplication
D) identity element for multiplication

Answer: B

479) $-4(7 + 8) = -4 \cdot 7 + (-4) \cdot 8$

A) associative property of multiplication
B) distributive property
C) associative property of addition
D) commutative property of multiplication

Answer: B

480) $\frac{1}{6}(6) = 1$

A) associative property of multiplication
B) identity element for multiplication
C) multiplicative inverse property
D) distributive property

Answer: C

Provide an appropriate response.

481) Find the opposite of −14.

A) −14
B) $-\frac{1}{14}$
C) 14
D) 0

Answer: C

482) Find the reciprocal of $-\frac{1}{28}$.

A) 28
B) $\frac{1}{28}$
C) 1
D) -28

Answer: D

Solve the problem.

483) A bike road race starts at an elevation of 930 feet and passes through 5 stages where the elevation changes by 356 feet, 160 feet, 597 feet, 184 feet, and −276 feet. At what elevation does the race end?

A) 2503 feet
B) −2503 feet
C) 322 feet
D) 1951 feet

Answer: D

484) A football team gained 22 yards on one play, lost 28 yards on another, and gained 34 yards on the last play of the first half. They had already gained 337 yards during the half. What was the total yardage gain for the first half?

A) 309 yards
B) 421 yards
C) 365 yards
D) 393 yards

Answer: C

485) In a certain location, the highest temperature recorded was 101°F. The lowest temperature recorded was 140 degrees less than the highest. What was the lowest temperature?

A) 39°F
B) 0°F
C) −39°F
D) −138°F

Answer: C

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486) A grocery store inventory showed a loss of 70 damaged items per month. How many items were damaged in 8 months?

A) 560 items B) 460 items C) 570 items D) 78 items

Answer: A

Simplify the expression.

487) 8y + 10 – 3y + 2

A) 5y + 8 B) 11y + 12 C) 17y D) 5y + 12

Answer: D

488) 5.6x – 1.5 – 3.3x + 6 + 2.9x

A) 11.8x + 4.5 B) 5.2x + 7.5 C) 5.2x – 4.5 D) 5.2x + 4.5

Answer: D

489) 6(9y + 4) – 8(3y + 2)

A) –5y – 6 B) 30y + 8 C) 30y + 2 D) –40y

Answer: B

490) –8(5x + 10) + 2(4x + 2)

A) –32x + 10 B) –32x – 76 C) –3x + 2 D) –120x

Answer: B

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1) A
2) B
3) B
4) D
5) B
6) B
7) C
8) A
9) B
10) C
11) A
12) C
13) A
14) B
15) B
16) B
17) B
18) B
19) A
20) A
21) B
22) B
23) A
24) A
25) B
26) A
27) A
28) A
29) D
30) B
31) D
32) D
33) A
34) A
35) A
36) C
37) C
38) A
39) C
40) D
41) A
42) B
43) B
44) A
45) A
46) B
47) A
48) A
49) A
50) A

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51) D
52) D
53) A
54) D
55) A
56) A
57) D
58) A
59) B
60) B
61) B
62) B
63) D
64) B
65) B
66) B
67) A
68) B
69) A
70) B
71) A
72) D
73) A
74) A
75) A
76) B
77) A
78) A
79) A
80) B
81) C
82) A
83) B
84) A
85) A
86) C
87) A
88) B
89) D
90) B
91) A
92) A
93) C
94) C
95) B
96) D
97) D
98) D
99) D
100) A

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101) A
102) D
103) D
104) A
105) B
106) C
107) D
108) D
109) D
110) B
111) D
112) C
113) A
114) A
115) B
116) A
117) A
118) A
119) B
120) A
121) B
122) A
123) A
124) B
125) A
126) B
127) D
128) A
129) C
130) A
131) B
132) C
133) A
134) D
135) A
136) C
137) A
138) C
139) C
140) B
141) D
142) A
143) C
144) B
145) B
146) D
147) B
148) D
149) C
150) A

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151) C
152) A
153) D
154) D
155) D
156) C
157) A
158) B
159) D
160) A
161) B
162) B
163) D
164) D
165) C
166) D
167) C
168) D
169) A
170) A
171) B
172) C
173) C
174) C
175) D
176) C
177) A
178) C
179) B
180) C
181) C
182) A
183) C
184) D
185) A
186) C
187) A
188) D
189) C
190) B
191) B
192) A
193) A
194) A
195) A
196) B
197) B
198) D
199) D
200) C

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201) A
202) C
203) A
204) D
205) B
206) C
207) B
208) B
209) D
210) B
211) A
212) C
213) D
214) B
215) A
216) D
217) B
218) A
219) D
220) D
221) B
222) B
223) D
224) A
225) C
226) C
227) A
228) B
229) B
230) C
231) B
232) B
233) D
234) B
235) D
236) B
237) C
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239) B
240) C
241) C
242) C
243) D
244) D
245) B
246) D
247) B
248) A
249) C
250) B

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251) A
252) B
253) B
254) B
255) D
256) D
257) C
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259) A
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267) C
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286) A
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289) C
290) D
291) B
292) A
293) B
294) C
295) B
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297) C
298) C
299) D
300) B

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301) D
302) C
303) D
304) D
305) A
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307) B
308) A
309) C
310) D
311) C
312) C
313) D
314) A
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326) C
327) D
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331) A
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337) D
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342) B
343) D
344) B
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346) A
347) C
348) B
349) A
350) C

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351) A
352) A
353) D
354) B
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378) A
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388) C
389) C
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401) A
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443) C
444) A
445) C
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448) A
449) B
450) D

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451) B
452) D
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457) A
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489) B
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