Test Bank for Algebra A Combined Approach 6th Martin Gay

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

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

List the factors of the number.

1) 49
A) 1, 7, 49 B) 1, 7 C) 7, 49 D) 1, 7, 19, 49
Answer: A

2) 343
A) 1, 7, 49, 98, 343 B) 7, 49, 343 C) 1, 7, 49, 343 D) 1, 7, 49
Answer: C

3) 35
A) 5, 7 B) 1, 5, 7, 35 C) 5, 7, 35 D) 1, 35
Answer: B

4) 28
A) 1, 2, 4, 7, 14, 28 B) 1, 2, 4, 7, 14 C) 1, 2, 4, 7, 28 D) 1, 2, 4, 7, 8, 14, 28
Answer: A

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

6) 30
A) 5, 6, 10, 30 B) 1, 2, 3, 5, 6, 10, 20, 30
C) 1, 5, 6, 30 D) 1, 2, 3, 5, 6, 10, 15, 30
Answer: D

7) 88
A) 1, 2, 4, 8, 11, 12, 22, 44, 88 B) 1, 2, 4, 8, 11, 22, 44, 88
C) 1, 2, 4, 8, 11, 16, 22, 44, 88 D) 1, 2, 4, 8, 11, 22, 88
Answer: B

8) 30
A) 1, 2, 3, 5, 6, 10, 15, 30 B) 1, 2, 3, 4, 5, 6, 10, 15, 30
C) 1, 2, 3, 5, 6, 10, 30 D) 1, 2, 3, 5, 6, 15, 30
Answer: A

9) 100
A) 1, 2, 4, 5, 10, 20, 25, 100 B) 1, 2, 4, 5, 10, 12, 20, 25, 50, 100
C) 1, 2, 4, 5, 10, 20, 25, 50, 100 D) 1, 2, 4, 5, 10, 12, 25, 50, 100
Answer: C

10) 17
A) 17 B) 1, 17 C) no factors D) 1
Answer: B

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

11) 31

A) 1, 31 B) 1, 13, 31 C) 31 D) no factors

Answer: A

Identify the number as prime or composite.

12) 42

A) Composite B) Prime

Answer: A

13) 11

A) Composite B) Prime

Answer: B

14) 88

A) Prime B) Composite

Answer: B

15) 39

A) Prime B) Composite

Answer: B

16) 101

A) Composite B) Prime

Answer: B

17) 825

A) Composite B) Prime

Answer: A

Write the prime factorization of the number.

18) 91

A) $12 \cdot 9$ B) $7 \cdot 13$ C) $7 \cdot 7 \cdot 13$ D) $8 \cdot 15$

Answer: B

19) 231

A) $3 \cdot 3 \cdot 11$ B) $21 \cdot 11$ C) $7 \cdot 7 \cdot 3$ D) $3 \cdot 7 \cdot 11$

Answer: D

20) 485

A) $5 \cdot 5$ B) $5 \cdot 95$ C) $5 \cdot 97$ D) $5 \cdot 5 \cdot 97$

Answer: C

21) 2607

A) $33 \cdot 79$ B) $11 \cdot 11 \cdot 79$ C) $3 \cdot 3 \cdot 79$ D) $3 \cdot 11 \cdot 79$

Answer: D

22) 63

A) $3 \cdot 3 \cdot 3 \cdot 7$ B) $3 \cdot 7 \cdot 7$ C) $3 \cdot 3 \cdot 7$ D) $9 \cdot 7$

Answer: C

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

23) 45

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

Answer: D

24) 48

A) $2 \cdot 2 \cdot 2 \cdot 3$ B) $2 \cdot 2 \cdot 2 \cdot 2 \cdot 3$ C) $2 \cdot 2 \cdot 2 \cdot 3 \cdot 3$ D) $16 \cdot 3$

Answer: B

25) 72

A) $8 \cdot 9$ B) $2 \cdot 2 \cdot 2 \cdot 3 \cdot 3$ C) $2 \cdot 2 \cdot 2 \cdot 2 \cdot 3$ D) $2 \cdot 2 \cdot 3 \cdot 3 \cdot 3$

Answer: B

26) 500

A) $2 \cdot 2 \cdot 2 \cdot 5 \cdot 5 \cdot 5$ B) $4 \cdot 125$ C) $2 \cdot 2 \cdot 5 \cdot 5 \cdot 5$ D) $2 \cdot 2 \cdot 2 \cdot 5 \cdot 5$

Answer: C

27) 198

A) $2 \cdot 3 \cdot 3 \cdot 11$ B) $2 \cdot 2 \cdot 3 \cdot 11$ C) $2 \cdot 3 \cdot 11 \cdot 11$ D) $2 \cdot 3 \cdot 11$

Answer: A

28) 468

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

Answer: A

29) 2600

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

Answer: A

Find the LCM of the list of numbers.

30) 3, 7

A) 7 B) 21 C) 147 D) 63

Answer: B

31) 70, 90

A) 90 B) 6300 C) 630 D) 4410

Answer: C

32) 10, 8

A) 2 B) 80 C) 160 D) 40

Answer: D

33) 8, 16

A) 1024 B) 16 C) 8 D) 128

Answer: B

34) 48, 45

A) 720 B) 48 C) 2160 D) 6480

Answer: A

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

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

36) 16, 24
A) 24 B) 96 C) 48 D) 384
Answer: C

37) 30, 90
A) 30 B) 90 C) 270 D) 180
Answer: B

38) 3, 4, 5
A) 60 B) 20 C) 180 D) 15
Answer: A

39) 4, 16, 21
A) 1344 B) 336 C) 2352 D) 84
Answer: B

40) 8, 40, 160
A) 51,200 B) 6400 C) 160 D) 1280
Answer: C

41) 10, 16, 96
A) 480 B) 3840 C) 1920 D) 15,360
Answer: A

42) 20, 36, 45
A) 720 B) 45 C) 180 D) 3600
Answer: C

43) 9, 48, 162
A) 648 B) 432 C) 324 D) 1296
Answer: D

44) 56, 135, 150
A) 7560 B) 3780 C) 37,800 D) 1,050
Answer: C

45) 60, 80, 50
A) 1200 B) 240 C) 600 D) 400
Answer: A

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

Simplify by dividing the numerator by the denominator.

46) $\frac{14}{14}$

A) $\frac{1}{14}$ B) 14 C) 1 D) 0

Answer: C

47) $\frac{35}{7}$

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

Answer: D

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

A) 15 B) –16 C) $\frac{1}{16}$ D) 16

Answer: D

49) $\frac{0}{17}$

A) $\frac{1}{17}$ B) 17 C) 0 D) undefined

Answer: C

50) $\frac{30}{0}$

A) 0 B) 30 C) $\frac{1}{30}$ D) undefined

Answer: D

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

51) $\frac{3}{10}$ with a denominator of 20

A) $\frac{6}{20}$ B) $\frac{30}{20}$ C) $\frac{2}{20}$ D) $\frac{3}{20}$

Answer: A

52) $\frac{4}{7}$ with a denominator of 35

A) $\frac{5}{35}$ B) $\frac{28}{35}$ C) $\frac{20}{35}$ D) $\frac{4}{35}$

Answer: C

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

53) $\frac{7}{6}$ with a denominator of 18

A) $\frac{7}{18}$ B) $\frac{21}{18}$ C) $\frac{42}{18}$ D) $\frac{3}{18}$

Answer: B

54) $\frac{2}{3}$ with a denominator of 27

A) $\frac{2}{27}$ B) $\frac{18}{27}$ C) $\frac{6}{27}$ D) $\frac{9}{27}$

Answer: B

55) $\frac{7}{8}$ with a denominator of 48

A) $\frac{7}{48}$ B) $\frac{42}{48}$ C) $\frac{336}{384}$ D) $\frac{56}{48}$

Answer: B

Simplify the fraction.

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

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

Answer: B

57) $\frac{40}{45}$

A) $\frac{40}{45}$ B) $\frac{5}{9}$ C) $\frac{8}{5}$ D) $\frac{8}{9}$

Answer: D

58) $\frac{70}{126}$

A) $\frac{5}{14}$ B) $\frac{5}{9}$ C) $\frac{14}{9}$ D) $\frac{70}{126}$

Answer: B

59) $\frac{17}{46}$

A) $\frac{1}{46}$ B) $\frac{23}{8}$ C) $\frac{17}{46}$ D) $\frac{8}{23}$

Answer: C

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

60) $\frac{70}{80}$

A) $\frac{10}{8}$ B) $\frac{7}{8}$ C) $\frac{70}{80}$ D) $\frac{7}{10}$

Answer: B

61) $\frac{60}{100}$

A) $\frac{3}{5}$ B) $\frac{60}{100}$ C) $\frac{3}{20}$ D) $\frac{20}{5}$

Answer: A

62) $\frac{44}{76}$

A) $\frac{44}{76}$ B) $\frac{11}{4}$ C) $\frac{4}{19}$ D) $\frac{11}{19}$

Answer: D

63) $\frac{95}{90}$

A) $\frac{95}{90}$ B) $\frac{18}{5}$ C) $\frac{19}{18}$ D) $\frac{18}{19}$

Answer: C

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

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

Answer: B

65) $\frac{195}{210}$

A) $\frac{13}{14}$ B) $\frac{13}{15}$ C) $\frac{15}{14}$ D) $\frac{195}{210}$

Answer: A

66) $\frac{290}{930}$

A) $\frac{29}{93}$ B) $\frac{290}{930}$ C) $\frac{310}{96}$ D) $\frac{96}{310}$

Answer: A

67) $\frac{637}{1323}$

A) $\frac{27}{13}$ B) $\frac{13}{27}$ C) $\frac{1323}{637}$ D) $\frac{637}{1323}$

Answer: B

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

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

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

A) $\frac{1}{21}$ B) $\frac{1}{5}$ C) 21 D) $\frac{7}{3}$

Answer: A

69) $\frac{20}{9} \cdot \frac{1}{5}$

A) $\frac{2}{9}$ B) $2\frac{4}{9}$ C) $2\frac{2}{45}$ D) $\frac{4}{9}$

Answer: D

70) $\frac{20}{21} \cdot \frac{28}{15}$

A) $\frac{16}{21}$ B) $\frac{112}{63}$ C) $\frac{16}{9}$ D) $\frac{16}{15}$

Answer: C

71) $2 \cdot \frac{81}{10}$

A) $16\frac{1}{5}$ B) $16\frac{3}{5}$ C) $16\frac{1}{10}$ D) $10\frac{1}{5}$

Answer: A

72) $2 \cdot \frac{37}{10}$

A) 6 B) $6\frac{2}{5}$ C) $7\frac{2}{5}$ D) $6\frac{7}{10}$

Answer: C

73) $\frac{1}{13} \div \frac{1}{10}$

A) $\frac{9}{13}$ B) $\frac{10}{11}$ C) $\frac{8}{13}$ D) $\frac{10}{13}$

Answer: D

74) $\frac{3}{19} \div \frac{3}{10}$

A) $\frac{10}{19}$ B) $\frac{9}{19}$ C) $\frac{10}{17}$ D) $\frac{8}{19}$

Answer: A

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

75) $\frac{1}{11} \div \frac{4}{15}$

A) $\frac{165}{4}$ B) $\frac{4}{165}$ C) $\frac{5}{26}$ D) $\frac{15}{44}$

Answer: D

76) $\frac{21}{10} \div \frac{14}{15}$

A) $\frac{9}{4}$ B) $\frac{45}{20}$ C) $\frac{9}{10}$ D) $\frac{9}{14}$

Answer: A

77) $46 \div \frac{23}{5}$

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

Answer: D

78) $\frac{32}{7} \div 8$

A) $\frac{4}{6}$ B) $\frac{4}{7}$ C) $\frac{3}{7}$ D) $\frac{5}{7}$

Answer: B

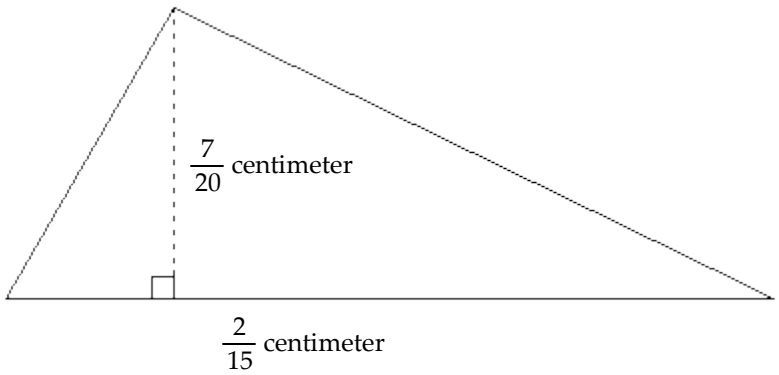
79) $\frac{10}{7} \div \frac{2}{7}$

A) $\frac{7}{2}$ B) 4 C) 6 D) 5

Answer: D

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) $\frac{7}{75}$ sq. cm B) $\frac{300}{7}$ sq. cm C) $\frac{7}{300}$ sq. cm D) $\frac{7}{150}$ sq. cm

Answer: C

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

81)



$\frac{1}{3}$ foot

$\frac{6}{7}$ foot

A) $\frac{7}{10}$ sq. ft B) $\frac{6}{21}$ sq. ft C) $\frac{3}{5}$ sq. ft D) $\frac{2}{7}$ sq. ft

Answer: D

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

82) $\frac{1}{9} + \frac{5}{9}$

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

Answer: C

83) $\frac{4}{8} - \frac{3}{8}$

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

Answer: B

84) $\frac{9}{25} + \frac{9}{25}$

A) $\frac{17}{24}$ B) $\frac{17}{25}$ C) $\frac{19}{26}$ D) $\frac{18}{25}$

Answer: D

85) $\frac{10}{82} + \frac{10}{82}$

A) $\frac{9}{41}$ B) $\frac{11}{42}$ C) $\frac{10}{41}$ D) $\frac{9}{40}$

Answer: C

86) $\frac{52}{84} - \frac{36}{84}$

A) $\frac{2}{21}$ B) $22\frac{2}{7}$ C) $\frac{4}{21}$ D) $1\frac{1}{21}$

Answer: C

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

87) $\frac{4}{5} + \frac{1}{4}$

A) $\frac{21}{20}$ B) $\frac{1}{4}$ C) $\frac{6}{5}$ D) $\frac{5}{9}$

Answer: A

88) $\frac{4}{7} + \frac{5}{14}$

A) $\frac{3}{14}$ B) $\frac{13}{7}$ C) $\frac{13}{14}$ D) $\frac{3}{7}$

Answer: C

89) $\frac{6}{7} - \frac{4}{6}$

A) $\frac{8}{7}$ B) $\frac{1}{21}$ C) $\frac{4}{21}$ D) $\frac{2}{7}$

Answer: C

90) $\frac{1}{7} - \frac{1}{13}$

A) $\frac{6}{7}$ B) $\frac{1}{7}$ C) $\frac{1}{91}$ D) $\frac{6}{91}$

Answer: D

91) $\frac{1}{6} + \frac{1}{12}$

A) $\frac{1}{6}$ B) $\frac{1}{9}$ C) $\frac{19}{72}$ D) $\frac{1}{4}$

Answer: D

92) $\frac{11}{18} - \frac{1}{21}$

A) $\frac{38}{63}$ B) $\frac{71}{126}$ C) $\frac{5}{63}$ D) $\frac{71}{378}$

Answer: B

93) $\frac{11}{15} - \frac{3}{25}$

A) $\frac{52}{75}$ B) $\frac{46}{75}$ C) $\frac{8}{75}$ D) $\frac{46}{375}$

Answer: B

94) $\frac{8}{21} + \frac{1}{18}$

A) $\frac{55}{126}$ B) $\frac{1}{14}$ C) $\frac{55}{39}$ D) $\frac{7}{18}$

Answer: A

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

95) $\frac{14}{3} - \frac{8}{9}$

A) $\frac{2}{3}$ B) $\frac{34}{9}$ C) $\frac{34}{3}$ D) $\frac{34}{27}$

Answer: B

96) $\frac{23}{7} - 1$

A) $\frac{22}{7}$ B) 22 C) $\frac{16}{7}$ D) $\frac{160}{7}$

Answer: C

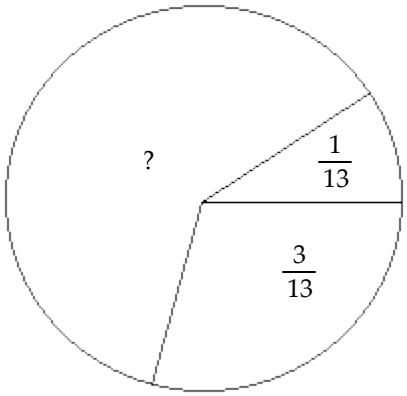
97) $10 - \frac{9}{8}$

A) $\frac{89}{8}$ B) $\frac{71}{8}$ C) $\frac{9}{2}$ D) $\frac{1}{8}$

Answer: B

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

98)

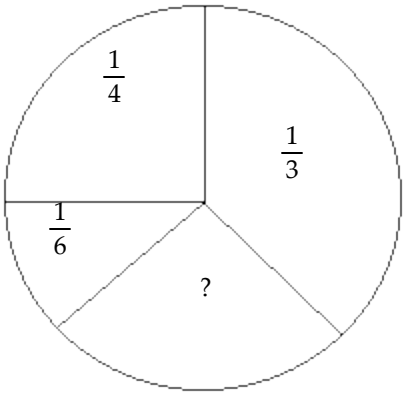


A) $\frac{15}{13}$ B) $\frac{4}{13}$ C) $\frac{11}{13}$ D) $\frac{9}{13}$

Answer: D

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

99)

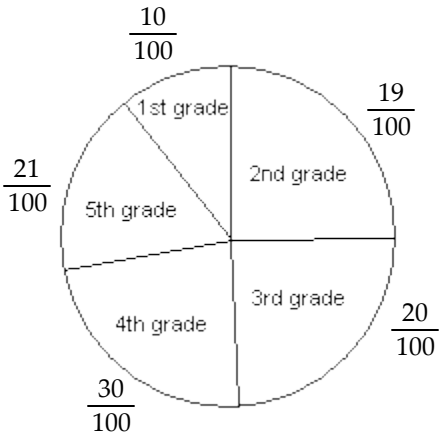


A) $\frac{1}{4}$ B) $\frac{1}{3}$ C) $\frac{1}{2}$ D) $\frac{3}{4}$

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 fifth and second grades?



A) $\frac{79}{100}$ B) $\frac{81}{100}$ C) $\frac{3}{5}$ D) $\frac{2}{5}$

Answer: C

101) Jim read $\frac{9}{100}$ of a book one week, $\frac{1}{25}$ the next week, and $\frac{13}{70}$ the third week. How much of the book was read?

A) $\frac{23}{175000}$ B) $\frac{23}{195}$ C) $\frac{221}{700}$ D) $\frac{23}{1400}$

Answer: C

102) The total length of a motor cycle race is $\frac{5}{10}$ of a mile. Gretta has completed $\frac{4}{10}$ of a mile. How much does she have left to complete?

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

Answer: D

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

103) Ian walked $\frac{2}{30}$ mile to his biology class, $\frac{3}{30}$ mile to his art class, $\frac{6}{30}$ 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) $\frac{11}{15}$ mi B) $\frac{11}{30}$ mi C) $\frac{19}{30}$ mi D) $\frac{5}{6}$ mi

Answer: C

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

104) $1\frac{2}{5} \cdot 2\frac{7}{8}$

A) $4\frac{1}{4}$ B) $4\frac{1}{40}$ C) $2\frac{7}{20}$ D) $\frac{27}{40}$

Answer: B

105) $3\frac{3}{5} \cdot 1\frac{2}{3}$

A) 11 B) $3\frac{14}{15}$ C) 7 D) 6

Answer: D

106) $3\frac{2}{9} \div 2\frac{4}{9}$

A) $1\frac{8}{22}$ B) $1\frac{7}{22}$ C) $2\frac{7}{22}$ D) $1\frac{7}{21}$

Answer: B

107) $3\frac{3}{4} \div 1\frac{1}{20}$

A) 18 B) $3\frac{15}{16}$ C) $3\frac{4}{7}$ D) 15

Answer: C

108) $5\frac{5}{6} \div \frac{1}{6}$

A) $\frac{35}{36}$ B) $30\frac{5}{6}$ C) 10 D) 35

Answer: D

109) $3\frac{6}{7} \cdot 1\frac{5}{9}$

A) 3 B) 1 C) 6 D) 5

Answer: C

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

110) $4 \cdot 4\frac{1}{14}$

A) 16 B) $16\frac{1}{14}$ C) $15\frac{2}{7}$ D) $16\frac{2}{7}$

Answer: D

111) $5\frac{2}{3} \div 3\frac{1}{3}$

A) $1\frac{7}{9}$ B) $2\frac{7}{10}$ C) $1\frac{4}{5}$ D) $1\frac{7}{10}$

Answer: D

112) $3\frac{3}{5} \div 1\frac{5}{9}$

A) $2\frac{12}{35}$ B) $3\frac{11}{35}$ C) $2\frac{11}{34}$ D) $2\frac{11}{35}$

Answer: D

113) $28 \div 2\frac{4}{5}$

A) 9 B) 11 C) $8\frac{1}{2}$ D) 10

Answer: D

114) $5\frac{5}{8} \div 9$

A) $\frac{5}{8}$ B) $\frac{3}{4}$ C) $\frac{5}{7}$ D) $\frac{1}{2}$

Answer: A

115) $8\frac{2}{5} + 6\frac{1}{7}$

A) $14\frac{19}{35}$ B) $15\frac{19}{35}$ C) $8\frac{19}{35}$ D) $13\frac{19}{35}$

Answer: A

116) $14\frac{3}{7} + 14\frac{1}{7}$

A) $29\frac{4}{7}$ B) $14\frac{4}{7}$ C) $28\frac{4}{7}$ D) $27\frac{4}{7}$

Answer: C

117) $11\frac{2}{9} - 1\frac{7}{9}$

A) $9\frac{3}{9}$ B) $9\frac{4}{9}$ C) $11\frac{4}{9}$ D) $12\frac{4}{9}$

Answer: B

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

118) $3\frac{3}{10} + 4\frac{5}{7}$

A) $8\frac{1}{70}$ B) $3\frac{53}{70}$ C) $1\frac{31}{35}$ D) $\frac{15}{17}$

Answer: A

119) $6\frac{11}{24} - 1\frac{1}{20}$

A) $4\frac{49}{120}$ B) $5\frac{9}{20}$ C) $5\frac{1}{12}$ D) $5\frac{49}{120}$

Answer: D

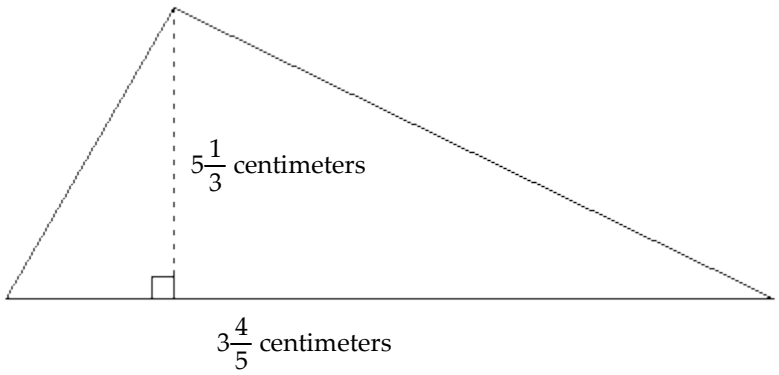
120) $3\frac{7}{20} + 1\frac{8}{25}$

A) $4\frac{43}{100}$ B) $4\frac{67}{100}$ C) $4\frac{3}{20}$ D) $4\frac{39}{100}$

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)



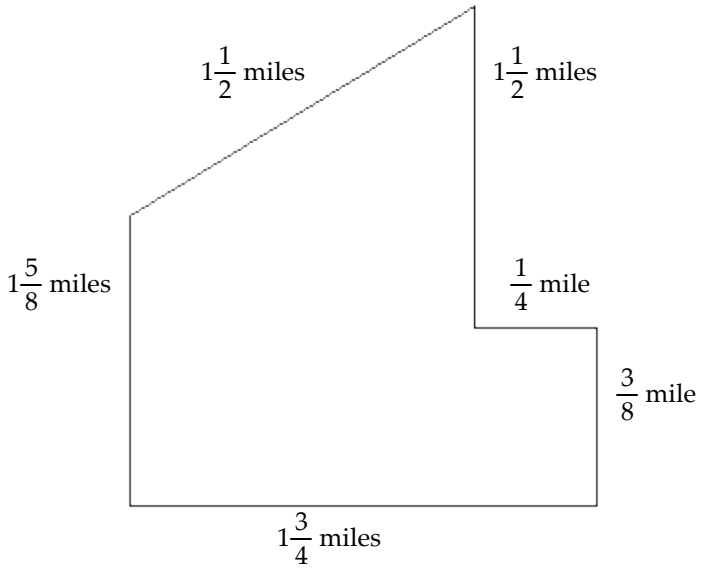
A) $10\frac{2}{15}$ sq. cm B) $20\frac{4}{15}$ sq. cm C) $9\frac{2}{15}$ sq. cm D) $40\frac{8}{15}$ sq. cm

Answer: A

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

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) 7 miles C) $5\frac{3}{4}$ miles D) $3\frac{3}{4}$ miles

Answer: B

Solve. Write the answer in simplest form.

123) Jeffrey has two packages. One weighs $3\frac{1}{3}$ ounces, and the other weighs $\frac{5}{9}$ ounces. What is the total weight of the two packages?

A) $6\frac{1}{4}$ ounces B) $3\frac{8}{9}$ ounces C) $1\frac{1}{4}$ ounces D) $1\frac{23}{27}$ ounces

Answer: B

124) Last week, Samantha ran 20 miles. This week, she ran $18\frac{2}{3}$ miles. How much more did she run last week?

A) $1\frac{1}{3}$ miles B) $25\frac{1}{3}$ miles C) $1\frac{3}{7}$ miles D) $38\frac{2}{3}$ miles

Answer: A

Write the decimal as a fraction. Do not simplify.

125) 0.2

A) $\frac{1}{2}$ B) $\frac{2}{10}$ C) $\frac{2}{100}$ D) $\frac{10}{2}$

Answer: B

126) 0.61

A) $\frac{61}{100}$ B) $\frac{100}{61}$ C) $\frac{1}{61}$ D) $\frac{61}{1000}$

Answer: A

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

127) 0.166

A) $\frac{166}{10000}$ B) $\frac{100}{166}$ C) $\frac{166}{1000}$ D) $\frac{1}{166}$

Answer: C

128) 8.39

A) $\frac{839}{10}$ B) $\frac{839}{100}$ C) $\frac{83.9}{10}$ D) $\frac{839}{1000}$

Answer: B

129) 708.6

A) $\frac{70.86}{10}$ B) $\frac{7086}{1000}$ C) $\frac{7086}{10}$ D) $\frac{7086}{100}$

Answer: C

Add or subtract as indicated.

130) 5.3 + 5.36

A) 10.66 B) 10.336 C) 5.89 D) 10.39

Answer: A

131) 96.5 + 9 + 0.0581

A) 105.5581 B) 105.72581 C) 105.5801 D) 106.301

Answer: A

132) 9.8 – 5.1

A) 9.29 B) 4.7 C) 4.79 D) 3.98

Answer: B

133) 45 – 2.98

A) 44.702 B) 1.52 C) 42.902 D) 42.02

Answer: D

134) 32 + 74.03 + 12.843

A) 119.873 B) 118.973 C) 118.883 D) 118.873

Answer: D

135) 452.9 + 0.3 + 85.55 + 80.4

A) 619.15 B) 619.16 C) 619.25 D) 620.15

Answer: A

136) 39.63 + 8.555 + 1.163 + 3.33

A) 52.778 B) 52.678 C) 52.688 D) 53.678

Answer: B

137) 5.404 – 2.530

A) 6.934 B) 2.974 C) 7.934 D) 2.874

Answer: D

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

138) 15.6 – 6.69

A) 23.29 B) 8.91 C) 22.29 D) 9.01

Answer: B

139) 17.125 – 2.641

A) 14.384 B) 19.766 C) 14.584 D) 14.484

Answer: D

140) 82 – 0.0185

A) 82.0185 B) 82.0815 C) 81.4815 D) 81.9815

Answer: D

141)

$$\begin{array}{r} 3.92 \\ 6.26 \\ +\ 15.41 \\ \hline \end{array}$$

A) 24.69 B) 25.69 C) 24.59 D) 25.59

Answer: D

142)

$$\begin{array}{r} 337.141 \\ 13.023 \\ +\ \ 3.785 \\ \hline \end{array}$$

A) 354.049 B) 354.059 C) 353.949 D) 353.959

Answer: C

143)

$$\begin{array}{r} 7.508 \\ 13.874 \\ +\ 185.41 \\ \hline \end{array}$$

A) 206.682 B) 206.782 C) 206.692 D) 206.792

Answer: D

144)

$$\begin{array}{r} 10.0053 \\ 2.0857 \\ +\ 9.3 \\ \hline \end{array}$$

A) 25.1623 B) 24.31387 C) 24.38623 D) 21.391

Answer: D

145)

$$\begin{array}{r} 9.56 \\ -\ 2.39 \\ \hline \end{array}$$

A) 8.17 B) 7.27 C) 7.17 D) 8

Answer: C

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

146)
$$\begin{array}{r} 8.3 \\ -\ 1.569 \\ \hline \end{array}$$

A) 8.000 B) 6.869 C) 7.731 D) 6.731

Answer: D

147)
$$\begin{array}{r} 31.02 \\ -\ 24.203 \\ \hline \end{array}$$

A) 6.827 B) 6.823 C) 8.000 D) 6.817

Answer: D

148)
$$\begin{array}{r} 566.3 \\ -\ 12.17 \\ \hline \end{array}$$

A) 446.13 B) 554.283 C) 554.13 D) 565.083

Answer: C

Multiply or divide as indicated.

149)
$$\begin{array}{r} 0.2 \\ \times\ 0.3 \\ \hline \end{array}$$

A) 0.06 B) 0.0006 C) 0.6 D) 0.006

Answer: A

150)
$$\begin{array}{r} 0.096 \\ \times\ 2.3 \\ \hline \end{array}$$

A) 0.2208 B) 2.396 C) 2 D) 0

Answer: A

151)
$$\begin{array}{r} 90.8 \\ \times\ 1.1 \\ \hline \end{array}$$

A) 91.9 B) 99.88 C) 100.98 D) 99.99

Answer: B

152)
$$\begin{array}{r} 15.32 \\ \times\ 0.0019 \\ \hline \end{array}$$

A) 0.039108 B) 0.019108 C) 0.129108 D) 0.029108

Answer: D

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

153)
$$\begin{array}{r} 0.06 \\ \times\ 0.4 \\ \hline \end{array}$$

A) 0.24 B) 0.024 C) 0.0024 D) 2.4

Answer: B

154)
$$\begin{array}{r} 0.309 \\ \times\ 0.5 \\ \hline \end{array}$$

A) 15.45 B) 0.1545 C) 0.001545 D) 1.545

Answer: B

155)
$$\begin{array}{r} 0.0065 \\ \times\ 9.7 \\ \hline \end{array}$$

A) 0.0006305 B) 0.06305 C) 0.6305 D) 0.006305

Answer: B

156)
$$\begin{array}{r} 5.2 \\ \times\ 100 \\ \hline \end{array}$$

A) 0.052 B) 5.20 C) 520 D) 5200

Answer: C

157)
$$\begin{array}{r} 325.78 \\ \times\ 10 \\ \hline \end{array}$$

A) 325.780 B) 3257.8 C) 32.578 D) 32,578

Answer: B

158)
$$\begin{array}{r} 0.8595 \\ \times\ 100 \\ \hline \end{array}$$

A) 0.859500 B) 859.5 C) 85.95 D) 8.595

Answer: C

159)
$$\begin{array}{r} 26.006 \\ \times\ \ 7.57 \\ \hline \end{array}$$

A) 196.86542 B) 1968.6542 C) 197.2742 D) 196.824542

Answer: A

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

160) $4\overline{)2}$

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

Answer: B

161) $14\overline{)5.684}$

A) 4.06 B) 0.406 C) 14.06 D) 1.406

Answer: B

162) $0.03\overline{)2.85}$

A) 9.5 B) 95 C) 96 D) 84

Answer: B

163) $2.7\overline{)3.51}$

A) 0.13 B) 2.3 C) 13 D) 1.3

Answer: D

164) $0.9\overline{)81}$

A) 0.0111 B) 900 C) 90 D) 9

Answer: C

165) $0.72\overline{)5.256}$

A) 73 B) 0.137 C) 7.3 D) 0.73

Answer: C

166) $0.043\overline{)16.34}$

A) 3800 B) 0.00026 C) 38 D) 380

Answer: D

Round the decimal to the given place value.

167) 2.642, nearest hundredth

A) 2.63 B) 2.64 C) 2.642 D) 2.65

Answer: B

168) 65.9492, nearest hundredth

A) 65.95 B) 65.9492 C) 65.85 D) 66.05

Answer: A

169) 7.74, nearest tenth

A) 7.8 B) 7.74 C) 7.7 D) 7.6

Answer: C

170) 4.368, nearest tenth

A) 4.368 B) 4.3 C) 4.5 D) 4.4

Answer: D

171) 62.7254, nearest thousandth

A) 62.7254 B) 62.735 C) 62.725 D) 62.715

Answer: C

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

172) 6.85198, nearest thousandth

A) 6.752 B) 6.85198 C) 6.952 D) 6.852

Answer: D

173) 0.4321, nearest hundredth

A) 0.44 B) 0.4321 C) 0.432 D) 0.43

Answer: D

174) 3384.333, nearest tenth

A) 3384.3 B) 3384.4 C) 3384.333 D) 3384.33

Answer: A

175) 0.07765, nearest hundredth

A) 0.07 B) 0.08 C) 0.1 D) 0.077

Answer: B

176) 0.9971, nearest hundredth

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

Answer: A

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) $\frac{5}{8}$

A) 0.675 B) 0.0625 C) 0.625 D) 0.6

Answer: C

178) $\frac{13}{25}$

A) 0.52 B) 0.72 C) 0.052 D) 0.495

Answer: A

179) $\frac{7}{16}$

A) $0.4\overline{375} \approx 0.44$ B) 0.4375 C) $0.437\overline{5} \approx 0.44$ D) $0.4\overline{375} \approx 0.44$

Answer: B

180) $\frac{27}{16}$

A) 1.6875 B) $1.68\overline{75} \approx 1.69$ C) $1.\overline{6875} \approx 1.69$ D) $1.6875 \approx 1.69$

Answer: A

181) $\frac{17}{20}$

A) $0.\overline{85} \approx 0.85$ B) $0.8\overline{5} \approx 0.86$ C) 0.85 D) $0.\overline{855} \approx 0.86$

Answer: C

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

182) $\frac{43}{20}$

A) $2.\overline{155} \approx 2.16$ B) 2.15 C) $2.\overline{15} \approx 2.15$ D) $2.1\overline{5} \approx 2.16$

Answer: B

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

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

Answer: D

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

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

Answer: B

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

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

Answer: C

186) $\frac{29}{6}$

A) $4.86\overline{} \approx 4.87$ B) $4.\overline{83} \approx 4.84$ C) $4.8\overline{3} \approx 4.83$ D) 4.83

Answer: C

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

A) $1.\overline{16} \approx 1.16$ B) $1.1\overline{6} \approx 1.17$ C) $1.1\overline{3} \approx 1.13$ D) 1.16

Answer: B

188) $\frac{16}{9}$

A) $1.\overline{70} \approx 1.71$ B) $1.\overline{7} \approx 1.77$ C) 1.77 D) $1.\overline{7} \approx 1.78$

Answer: D

Solve.

189) A survey taken in an elementary school revealed that $\frac{18}{113}$ 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) 0.16 B) 6.28 C) 0.14 D) 0.84

Answer: A

190) An organization surveys its members and finds that $\frac{1}{9}$ of them play a musical intrument. Write this fraction as a decimal. Round to the nearest thousandth, if necessary.

A) 0.211 B) 1 C) 0.9 D) 0.111

Answer: D

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

191) Prof. Al–Badul calculated that $\frac{3}{8}$ of her students passed their college algebra exam. Write this fraction as a decimal, rounding to the nearest thousandth if necessary.

A) 3.75 B) 26.667 C) 0.375 D) 2.667

Answer: C

Write the percent as a decimal.

192) 78%

A) 0.78 B) 78.0 C) 0.078 D) 7.8

Answer: A

193) 2%

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

Answer: D

194) 500%

A) 0.5 B) 0.05 C) 500 D) 5

Answer: D

195) 50%

A) 5 B) 50.0 C) 0.05 D) 0.5

Answer: D

196) 323%

A) 323 B) 0.323 C) 32.3 D) 3.23

Answer: D

197) 34.7%

A) 0.347 B) 34.7 C) 0.0347 D) 3.47

Answer: A

198) 4.8%

A) 0.48 B) 4.8 C) 48.0 D) 0.048

Answer: D

199) $64\frac{3}{10}\%$

A) 0.0643 B) 64.3 C) 0.643 D) 6.43

Answer: C

200) 31.53%

A) 0.3153 B) 0.03153 C) 3.153 D) 31.53

Answer: A

201) 90%

A) 0.09 B) 0.9 C) 9 D) 0.79

Answer: B

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

202) 0.27%

A) 0.0027 B) 0.027 C) 0.27 D) 0.0037

Answer: A

203) 0.078%

A) 0.000078 B) 0.0078 C) 0.00078 D) 7.8

Answer: C

204) 0.6%

A) 0.006 B) 0.6 C) 0.06 D) 0.007

Answer: A

205) In the last election Mr. Smith received 23% of the vote. Write this percent as a decimal.

A) 2.3 B) 23 C) 0.23 D) 230

Answer: C

206) Video games made up 16.9% of the total revenue for a small specialty store. Write this percent as a decimal.

A) 0.169 B) 16.9 C) 0.0169 D) 1.69

Answer: A

207) 19% of students at a small college lived at home while attending classes. Write this percent as a decimal.

A) 0.019 B) 0.19 C) 1.9 D) 19.0

Answer: B

Write the decimal as a percent.

208) 4.0

A) 400% B) 0.004% C) 0.4% D) 40%

Answer: A

209) 14

A) 1400% B) 140% C) 0.14% D) 1.4%

Answer: A

210) 0.002

A) 2% B) 0.002% C) 0.02% D) 0.2%

Answer: D

211) 0.92

A) 9.2% B) 920% C) 0.092% D) 92%

Answer: D

212) 0.065

A) 65% B) 0.65% C) 0.065% D) 6.5%

Answer: D

213) 0.9888

A) 0.9888% B) 98.88% C) 9.888% D) 9888%

Answer: B

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

214) 5.00

A) 500% B) 50% C) 0.05% D) 0.5%

Answer: A

215) 0.5

A) 0.05% B) 0.5% C) 500% D) 50%

Answer: D

216) 0.561

A) 0.0561% B) 561% C) 56.1% D) 0.561%

Answer: C

217) 0.00187

A) 0.187% B) 0.000187% C) 0.0187% D) 0.0935%

Answer: A

218) 5

A) 0.05% B) 500% C) 250% D) 0.5%

Answer: B

219) 0.00036

A) 0.036% B) 0.36% C) 0.0036% D) 0.000036%

Answer: A

220) 9.94

A) 9.94% B) 99.4% C) 994% D) 0.994

Answer: C

221) Last year Jill spent 0.3007 of her income for insurance. Write this decimal as a percent.

A) 3.007% B) 30.07% C) 0.003007% D) 0.03007%

Answer: B

222) Mario saved 0.2 of what he earned over the summer. Write this decimal as a percent.

A) 20% B) 200% C) 0.2% D) 0.02%

Answer: A

223) In a large city, 0.266 of the budget went toward city workers' salaries. Write this decimal as a percent.

A) 266% B) 0.0266% C) 26.6% D) 0.266%

Answer: C

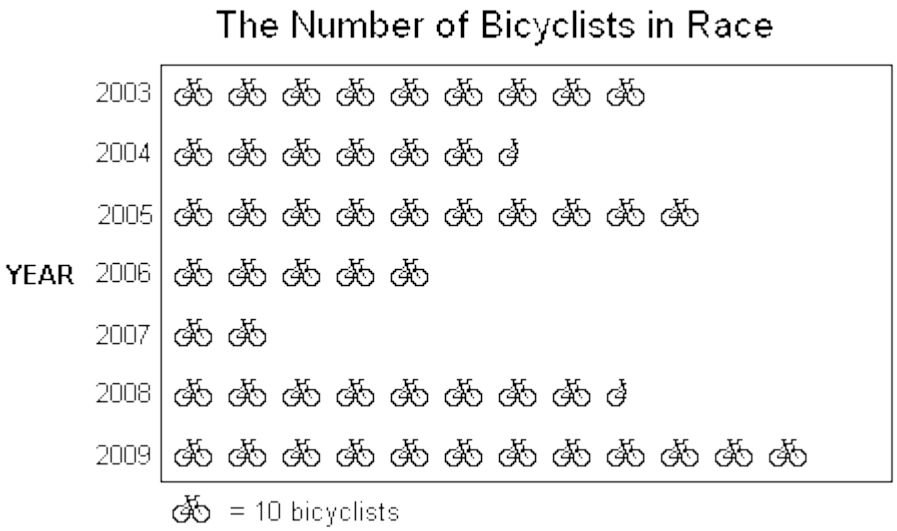
224) In an extended care facility, 0.2264 of the residents require a particular heart medication. Write this decimal as a percent.

A) 22.64% B) 2264% C) 0.2264% D) 2.264%

Answer: A

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

The following pictograph shows the number of bicyclists who participated in the Labor Day weekend bicycle race for the years 2003–2009. Use the graph to answer the question.



225) In what year did the greatest number of cyclists participate?
A) 1996 B) 2009 C) 1997 D) 2007
Answer: B

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

227) How many cyclists participated in 2008?
A) 90 cyclists B) 65 cyclists C) 85 cyclists D) 120 cyclists
Answer: C

228) Approximate the total number of cyclists who participated in 2008 and 2009.
A) 200 cyclists B) 205 cyclists C) 195 cyclists D) 210 cyclists
Answer: B

229) In what year did 20 cyclists participate?
A) 2009 B) 2003 C) 2008 D) 2007
Answer: D

230) In what years was there a decline in the number of cyclists who participated in the race?
A) 2004, 2006, 2007, 2008 B) 2004, 2006
C) 2005, 2008, 2009 D) 2004, 2006, 2007
Answer: D

231) In what years was there an increase in the number of cyclists who participated in the race?
A) 2004, 2006, 2007 B) 2003, 2005, 2009 C) 2004, 2005, 2009 D) 2005, 2008, 2009
Answer: D

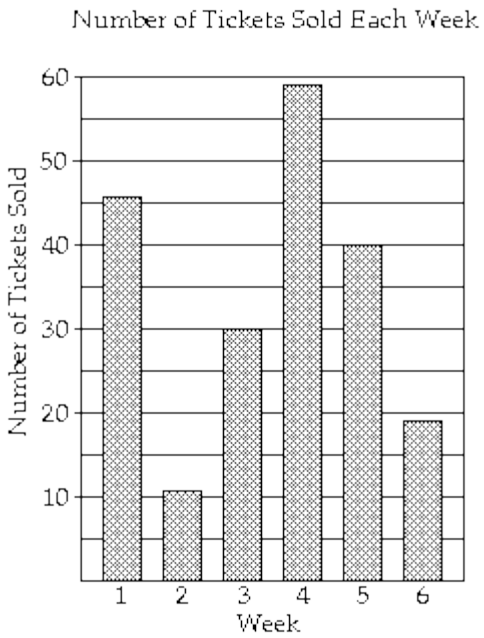
Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

232) What was the increase in the number of participants from 2008 to 2009?

A) 35 cyclists B) 45 cyclists C) 40 cyclists D) 30 cyclists

Answer: A

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



233) During which week was the most number of tickets sold?

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

Answer: A

234) During which week was the fewest number of tickets sold?

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

Answer: B

235) How many tickets were sold during week 6?

A) 19 tickets B) 30 tickets C) 46 tickets D) 11 tickets

Answer: A

236) During which week were 40 tickets sold?

A) week 1 B) week 6 C) week 2 D) week 5

Answer: D

237) How many more tickets were sold during week 1 than week 5?

A) 16 tickets B) 6 tickets C) 86 tickets D) 11 tickets

Answer: B

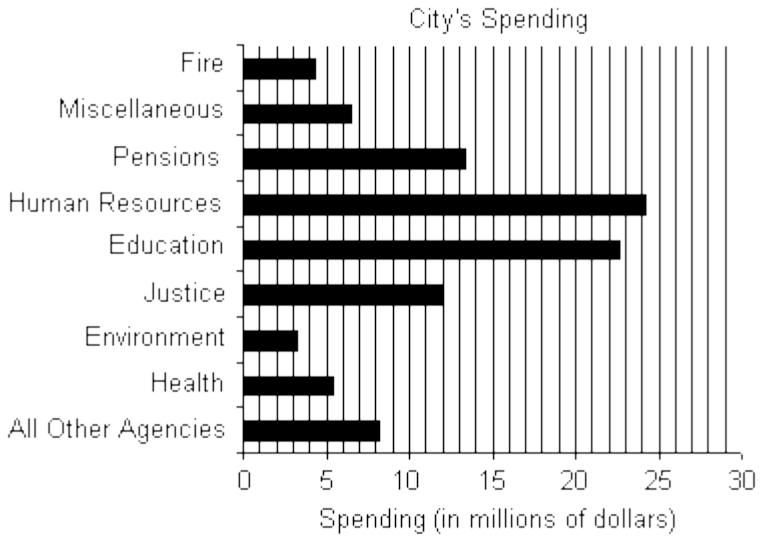
238) How many tickets were sold in all?

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

Answer: C

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

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



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

A) All Other Agencies; $8.2 million
B) Human Resources; $24.2 million
C) Health; $5.4 million
D) Environment; $3.2 million

Answer: D

240) Name the agency whose spending is between $22 million and $23 million and estimate its value.

A) Environment; $21.5 million
B) Education; $21.5 million
C) Environment; $22.7 million
D) Education; $22.7 million

Answer: D

241) How much more is spent on Justice than on Health?

A) $6.7 million
B) $5.2 million
C) $8.3 million
D) $8.9 million

Answer: A

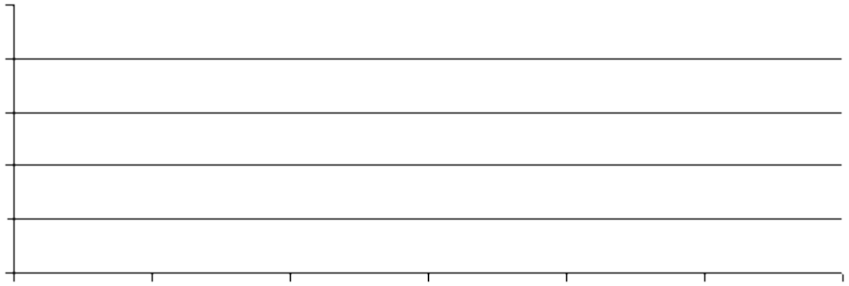
Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

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

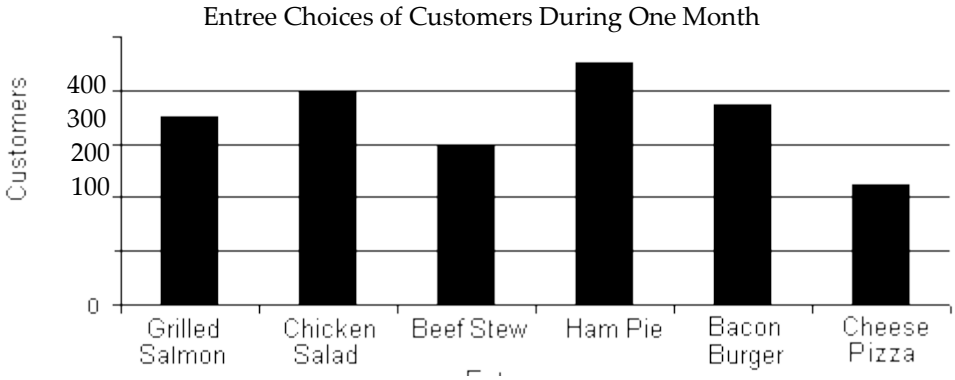
Use the information given to draw a vertical bar graph. Clearly label the bars on the graph shown below.

242) Entree Choices of Customers During One Month

Entree	Number of Customers
Grilled Salmon	350
Chicken Salad	400
Beef Stew	300
Ham Pie	450
Bacon Burger	375
Cheese Pizza	225



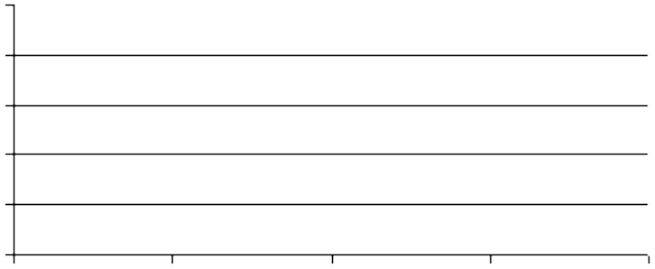
Answer:



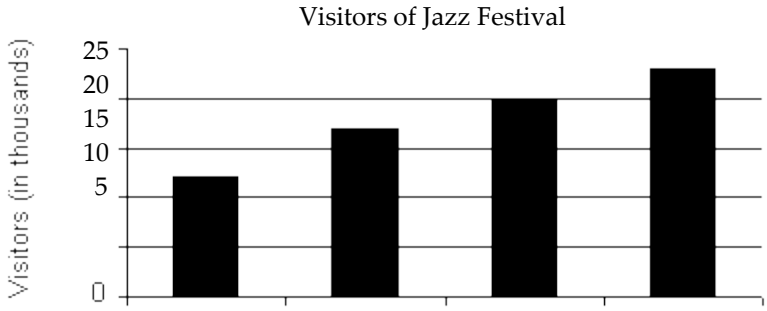
Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

243) Visitors of Jazz Festival

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

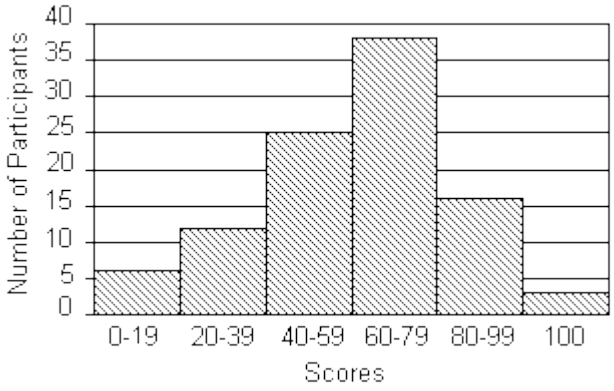


Answer:



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.



244) How many participants scored 60–79?

A) 3 participants B) 16 participants C) 6 participants D) 38 participants

Answer: D

245) How many participants scored more than 99?

A) 82 participants B) 19 participants C) 3 participants D) 57 participants

Answer: C

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

246) How many more participants scored 40–59 than 100?

A) 22 participants B) 4 participants C) 10 participants D) 32 participants

Answer: A

247) What is the ratio of participants who score 20–39 to the total number of participants?

A) $\frac{19}{50}$ B) $\frac{3}{25}$ C) $\frac{25}{3}$ D) $\frac{1}{4}$

Answer: B

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.

248)

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

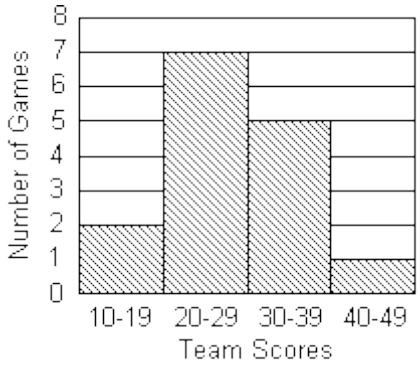
Class Intervals (Scores)	Tally	Class Frequency (Number of Games)
10–19		
20–29		
30–39		
40–49		



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

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay



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.

249)

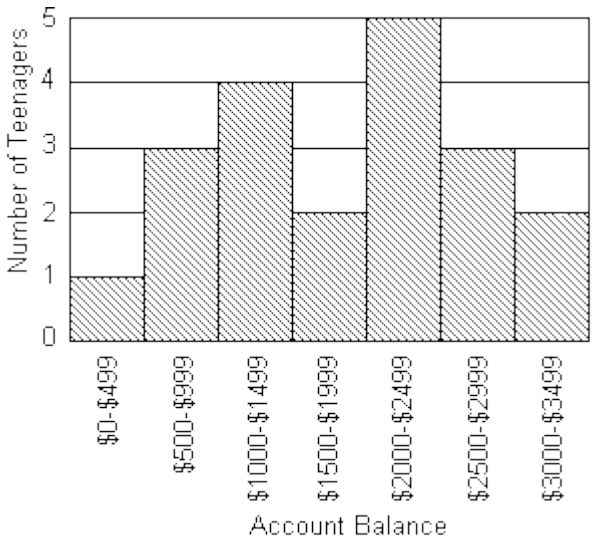
123	1296	899	3189	3145
2425	620	2700	2459	1080
1250	661	2119	2499	2650
2500	1500	1499	1620	2399

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

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

Answer:

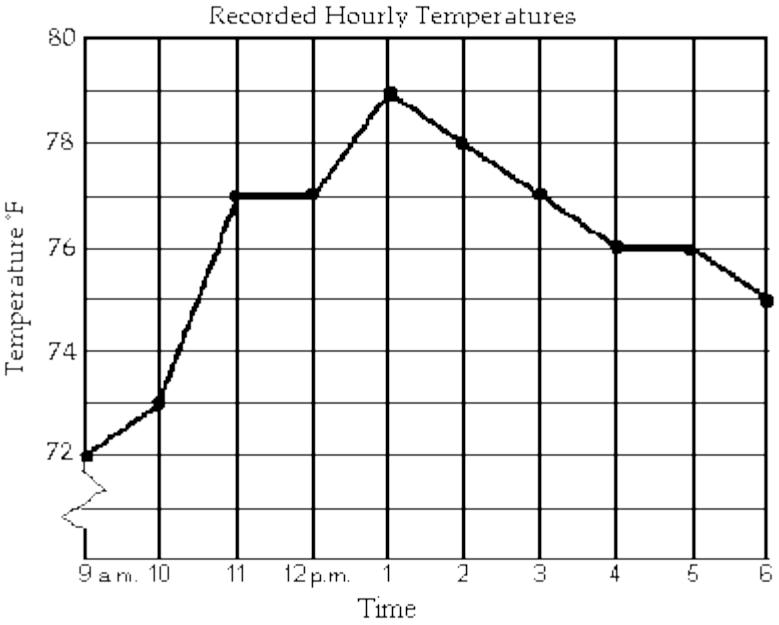
Class Intervals (Account Balances)	Tally	Class Frequency (Number of Teenagers)
\$0-\$499	I	1
\$500-\$999	III	3
\$1000-\$1499	IIII	4
\$1500-\$1999	II	2
\$2000-\$2499	⧻	5
\$2500-\$2999	III	3
\$3000-\$3499	II	2



Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

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.



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

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

252) What temperature was recorded at 3 p.m.?
A) 79 ° F B) 75 ° F C) 77 ° F D) 78 ° F
Answer: C

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

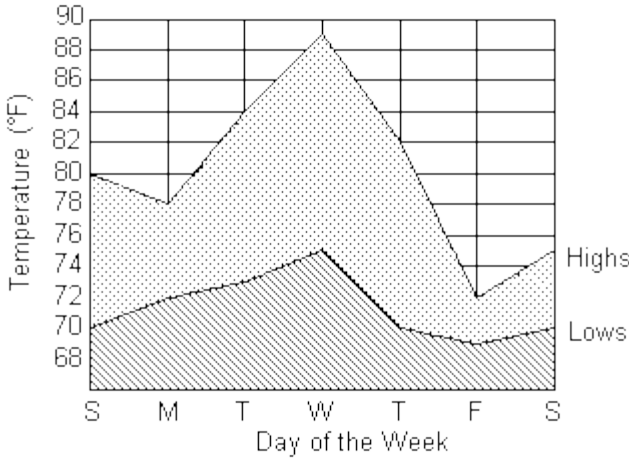
254) At what time was the temperature 72°?
A) 9 a.m. and 10 a.m. B) 6 p.m. C) 10 a.m. D) 9 a.m.
Answer: D

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

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

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.



256) What was the low temperature reading on Friday?

Answer: 69°F

257) 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?

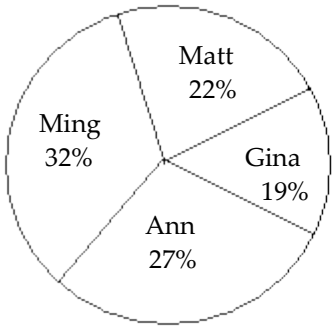
Answer: Friday; 3°F

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. The complete circular area represents 100% of the votes.

258)

Student Council President



500 total votes

The circle graph shows what percent of the vote each person received.

Who got the most votes?

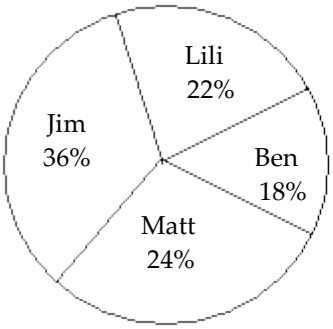
A) Gina B) Matt C) Ann D) Ming

Answer: D

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

259)

Student Council President



200 total votes

The circle graph shows what percent of the vote each person received.

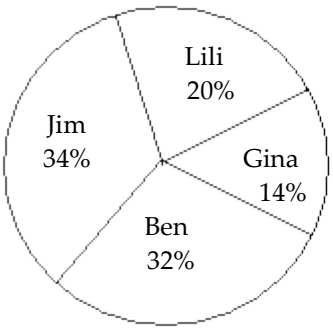
Who got the fewest votes?

A) Lili B) Jim C) Matt D) Ben

Answer: D

260)

Student Council President



600 total votes

The circle graph shows what percent of the vote each person received.

How many votes did Jim get?

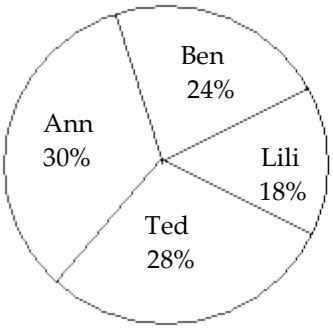
A) 120 B) 204 C) 84 D) 192

Answer: B

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

261)

Student Council President



300 total votes

The circle graph shows what percent of the vote each person received.

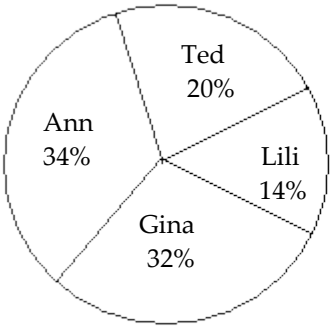
Find the ratio of Lili's votes to Ben's votes.

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

Answer: D

262)

Student Council President



400 total votes

The circle graph shows what percent of the vote each person received.

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

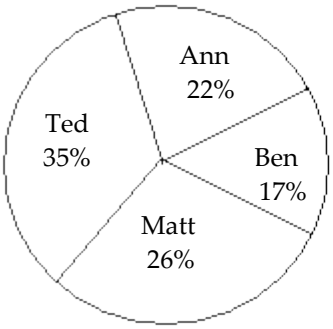
A) $\frac{17}{33}$ B) $\frac{50}{17}$ C) $\frac{33}{17}$ D) $\frac{17}{50}$

Answer: D

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

263)

Student Council President



600 total votes

The circle graph shows what percent of the vote each person received.

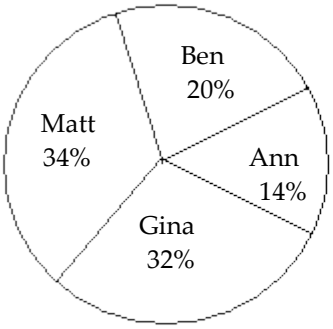
Who received the second most number of votes?

A) Ted B) Matt C) Ben D) Ann

Answer: B

264)

Student Council President



200 total votes

The circle graph shows what percent of the vote each person received.

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

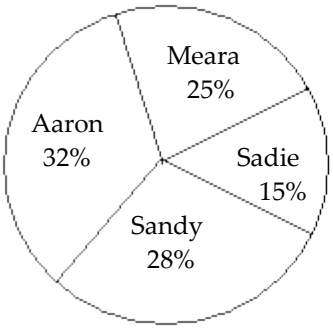
A) 14% B) 34% C) 66% D) 20%

Answer: B

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

265)

Student Council President



700 total votes

The circle graph shows what percent of the vote each person received.

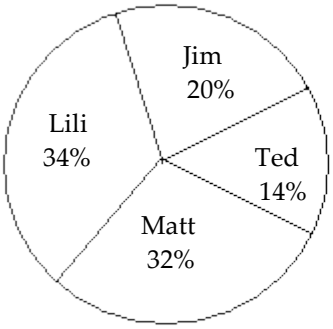
What percent of the votes did Meara NOT get?

A) 25% B) 68% C) 72% D) 75%

Answer: D

266)

Student Council President



400 total votes

The circle graph shows what percent of the vote each person received.

What percent of the votes did Ted NOT get?

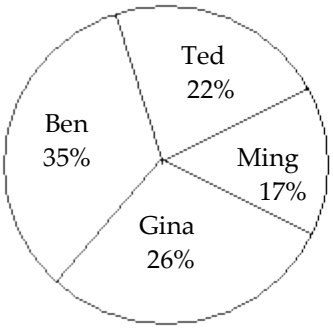
A) 14% B) 66% C) 86% D) 68%

Answer: C

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

267)

Student Council President



200 total votes

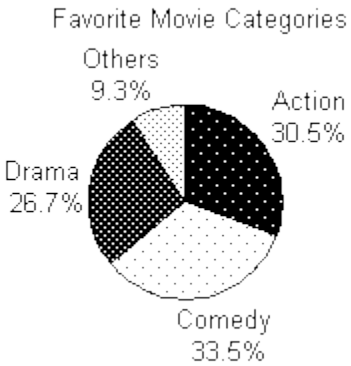
The circle graph shows what percent of the vote each person received.

How many people voted for someone other than Gina?

A) 166 B) 52 C) 148 D) 156

Answer: C

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



268) 1600 adults answer the survey.

How many of the survey respondents said that they favor action movies? Round to the nearest whole.

A) 536 respondents B) 427 respondents C) 488 respondents D) 3050 respondents

Answer: C

269) 1600 adults answer the survey.

Find the ratio of number of respondents who favor drama movies to those who favor others. Write the ratio as a fraction with integers in the numerator and denominator.

A) $\frac{1424}{31}$ B) $\frac{89}{31}$ C) $\frac{120}{31}$ D) $\frac{31}{89}$

Answer: B

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

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**	**bar**	**pictograph**
line	**circle**	**histogram**	**class interval**
class frequency			

270) To _____ means to write as a product.
A) multiple B) factor C) percent D) equivalent
Answer: B

271) A(n) _____ of a number is the product of that number and any natural number.
A) factor B) proper fraction C) multiple D) percent
Answer: C

272) A(n) _____ is a natural number greater than 1 that is not prime.
A) mixed number B) composite number C) proper fraction D) multiple
Answer: B

273) The word _____ means per 100.
A) multiple B) equivalent C) percent D) factor
Answer: C

274) Fractions that represent the same portion of a whole are called _____ fractions.
A) prime number B) equivalent C) simplified D) mixed number
Answer: B

275) A(n) _____ is a fraction whose numerator is greater than or equal to its denominator.
A) improper fraction B) proper fraction C) composite number D) mixed number
Answer: A

276) A(n) _____ is a natural number greater than 1 whose only factors are 1 and itself.
A) multiple B) prime number C) mixed number D) composite number
Answer: B

277) A fraction is _____ when the numerator and the denominator have no factors in common other than 1.
A) percent B) multiple C) equivalent D) simplified
Answer: D

278) A(n) _____ is one whose numerator is less than its denominator.
A) improper fraction B) mixed number C) proper fraction D) composite number
Answer: C

279) A(n) _____ contains a whole number part and a fraction part.
A) proper fraction B) composite number C) mixed number D) prime number
Answer: C

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

280) A(n) _____ graph presents data using vertical or horizontal bars.

A) line B) circle C) probability D) bar

Answer: D

281) A(n) _____ is a graph in which pictures or symbols are used to visually present data.

A) class interval B) histogram C) tree diagram D) pictograph

Answer: D

282) A(n) _____ graph displays information with a line that connects data points.

A) probability B) bar C) circle D) line

Answer: D

283) In a(n) _____ graph, each section (shaped like a piece of pie) shows a category and the relative size of the category.

A) line B) circle C) bar D) probability

Answer: B

284) A(n) _____ is a special bar graph in which the width of each bar represents a(n) _____ and the height of each bar represents the _____.

A) histogram, class interval, class frequency B) pictogram, class frequency, class interval

C) histogram, class frequency, class interval D) pictogram, class interval, class frequency

Answer: A

Solve.

285) Write the prime factorization of 200.

A) $2 \cdot 2 \cdot 5 \cdot 5 \cdot 5$ B) $2 \cdot 2 \cdot 2 \cdot 5 \cdot 5$ C) $8 \cdot 25$ D) $2 \cdot 2 \cdot 2 \cdot 2 \cdot 5$

Answer: B

286) Find the LCM of 7, 45, 175.

A) 11,025 B) 55,125 C) 315 D) 1575

Answer: D

287) Write $\frac{3}{8}$ as an equivalent fraction with a denominator of 72.

A) $\frac{27}{72}$ B) $\frac{24}{72}$ C) $\frac{3}{72}$ D) $\frac{216}{576}$

Answer: A

Simplify the fraction.

288) $\frac{15}{18}$

A) $\frac{5}{3}$ B) $\frac{15}{18}$ C) $\frac{3}{6}$ D) $\frac{5}{6}$

Answer: D

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

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

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

Answer: A

Solve.

290) Write 5.7 as a fraction.

A) $\frac{57}{10}$ B) $\frac{570}{10}$ C) $\frac{5.7}{10}$ D) $\frac{57}{100}$

Answer: A

Perform the indicated operation and simplify.

291) $\frac{4}{25} + \frac{7}{20}$

A) $\frac{23}{100}$ B) $\frac{51}{500}$ C) $\frac{51}{100}$ D) $\frac{11}{100}$

Answer: C

292) $\frac{3}{4} \cdot \frac{24}{35}$

A) $\frac{9}{13}$ B) $\frac{18}{35}$ C) $\frac{9}{70}$ D) $\frac{72}{35}$

Answer: B

293) $\frac{2}{5} \div 8$

A) 20 B) $\frac{1}{20}$ C) $\frac{4}{5}$ D) $\frac{16}{5}$

Answer: B

294) $\frac{5}{12} - \frac{1}{8}$

A) $\frac{1}{12}$ B) $\frac{3}{8}$ C) $\frac{7}{24}$ D) $\frac{7}{96}$

Answer: C

295) $5\frac{2}{3} + 5\frac{8}{9}$

A) $101\frac{5}{9}$ B) $11\frac{1}{9}$ C) $10\frac{5}{9}$ D) $11\frac{5}{9}$

Answer: D

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

296) $4\frac{2}{5} - 2\frac{1}{10}$

A) $2\frac{1}{10}$ B) $1\frac{3}{10}$ C) $1\frac{1}{10}$ D) $2\frac{3}{10}$

Answer: D

297) $8\frac{3}{8} \div \frac{1}{8}$

A) $1\frac{3}{64}$ B) $64\frac{3}{8}$ C) 67 D) 11

Answer: C

298) $3\frac{1}{2} \cdot 4\frac{2}{3}$

A) $12\frac{1}{3}$ B) $16\frac{2}{3}$ C) $16\frac{1}{3}$ D) 4

Answer: C

Perform the indicated operation.

299) 46 + 0.75 + 5.7

A) 52.45 B) 59.2 C) 51.775 D) 47.32

Answer: A

300) 419.8 – 17.39

A) 418.061 B) 402.41 C) 401.69 D) 245.9

Answer: B

301)

$$\begin{array}{r} 6.28 \\ \times\ 9.6 \\ \hline \end{array}$$

A) 6.0288 B) 60.288 C) 0.60288 D) 602.88

Answer: B

302) $0.25\overline{)88}$

A) 352 B) 22 C) 0.0028 D) 35.2

Answer: A

Solve.

303) Round 64.4304 to the nearest hundredth.

A) 64.43 B) 64.4304 C) 64.33 D) 64.53

Answer: A

304) Write $\frac{3}{8}$ as a decimal.

A) 0.375 B) 0.35 C) 0.0375 D) 0.425

Answer: A

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

305) Write $\frac{23}{6}$ as a repeating decimal. Then approximate the result to the nearest thousandth.

A) $3.8\overline{6} \approx 3.867$ B) $3.8\overline{3} \approx 3.834$ C) $3.8\overline{3} \approx 3.833$ D) $3.\overline{83} \approx 3.838$

Answer: C

306) Write 0.2% as a decimal.

A) 0.002 B) 0.0002 C) 0.02 D) 0.2

Answer: A

307) Write 0.24 as a percent.

A) 24% B) 240% C) 2.4% D) 0.024%

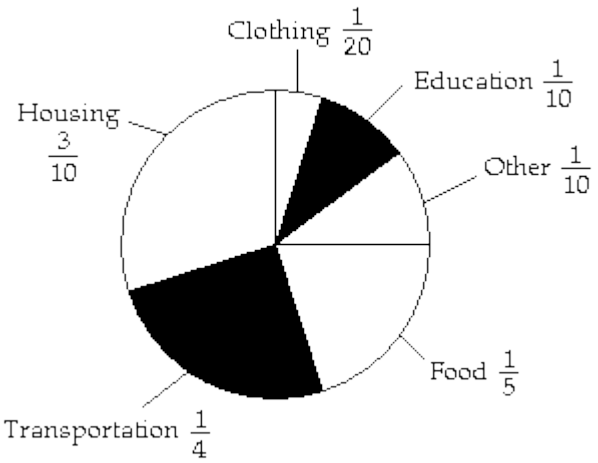
Answer: A

308) Write $\frac{1}{4}$ as a percent. (Hint: Write $\frac{1}{4}$ as a decimal, and then write the decimal as a percent.)

A) 250% B) 2.5% C) 0.25% D) 25%

Answer: D

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



309) What fraction of spending goes for education?

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

Answer: A

310) What fraction of spending goes for housing?

A) $\frac{1}{20}$ B) $\frac{1}{10}$ C) $\frac{1}{2}$ D) $\frac{3}{10}$

Answer: D

311) What fraction of spending goes for other and food combined?

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

Answer: A

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

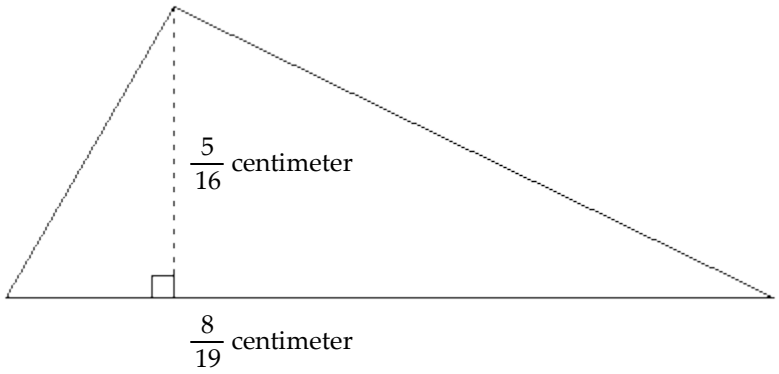
312) What fraction of spending goes for clothing, transportation, and other combined?

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

Answer: C

Find the area of the figure.

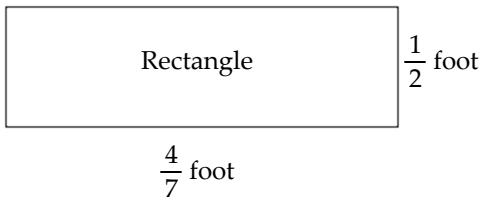
313)



A) $\frac{5}{38}$ sq cm B) $\frac{76}{5}$ sq cm C) $\frac{5}{76}$ sq cm D) $\frac{5}{19}$ sq cm

Answer: C

314)

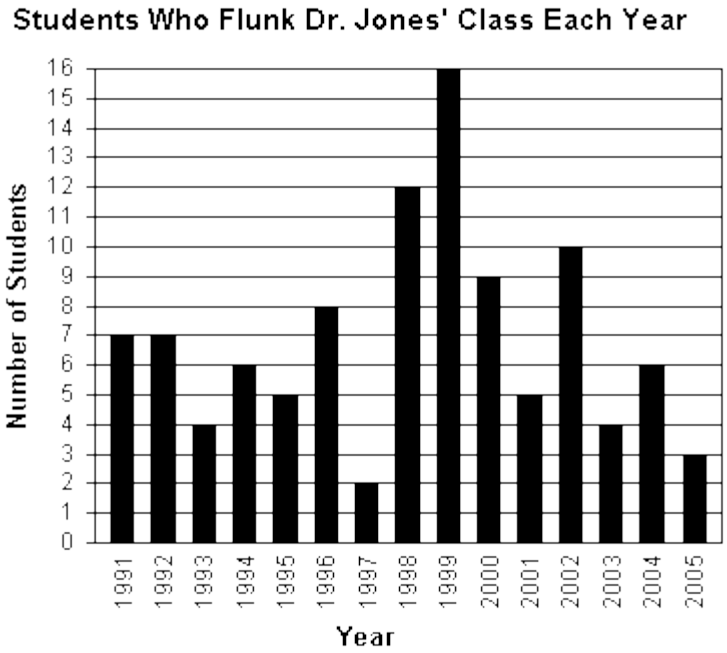


A) $\frac{2}{7}$ sq ft B) $\frac{4}{9}$ sq ft C) $\frac{5}{9}$ sq ft D) $\frac{4}{14}$ sq ft

Answer: A

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

The bar graph shows the number of students who flunk Dr. Jones' class each year.



315) During which year(s) did Dr. Jones' have more than 8 students flunk his class?

A) 1996, 1998, 1999, 2000 B) 1998, 1999, 2000, 2002

C) 1996, 1998, 1999 D) 1996, 1998, 1999, 2000, 2002

Answer: B

316) During which year did Dr. Jones' have the fewest number of students flunk his class? How many students flunked during that year?

A) 2005, 3 students B) 1999, 16 students C) 1997, 2 students D) 2005, 2 students

Answer: C

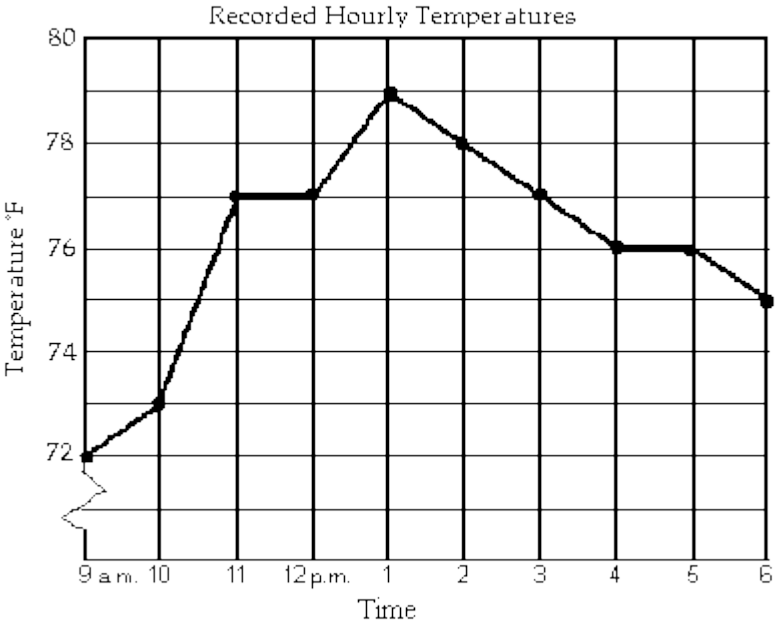
317) During which year(s) did exactly 4 students flunk Dr. Jones' class?

A) 1993, 2003 B) 1993, 2001 C) 1993 D) 2003

Answer: A

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

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



318) What temperature was recorded at 1 p.m.?

A) 81°F B) 77°F C) 80°F D) 79°F

Answer: D

319) During which hours shown was the temperature greater than 76°F?

A) 10 a.m. to 5 p.m. B) 11 a.m. to 3 p.m. C) 11 a.m. to 5 p.m. D) 10 a.m. to 3 p.m.

Answer: B

320) During which hours was the temperature increasing?

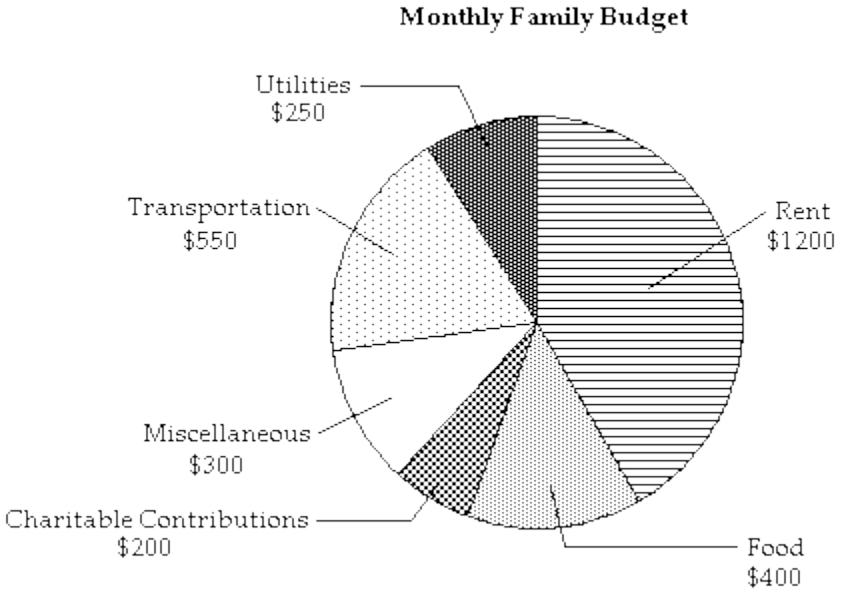
A) 1 p.m. to 4 p.m. and 5 p.m. to 6 p.m. B) 1 p.m. to 6 p.m.

C) 9 a.m. to 1 p.m. D) 9 a.m. to 11 a.m. and 12 p.m. to 1 p.m.

Answer: D

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

The following circle graph displays Chris and Mary Smith's monthly $2900 family budget. Use the circle graph to answer the question.



321) What is the ratio of money spent on utilities to the total amount of the monthly budget?

A) $\frac{58}{5}$ B) $\frac{11}{58}$ C) $\frac{58}{11}$ D) $\frac{5}{58}$

Answer: D

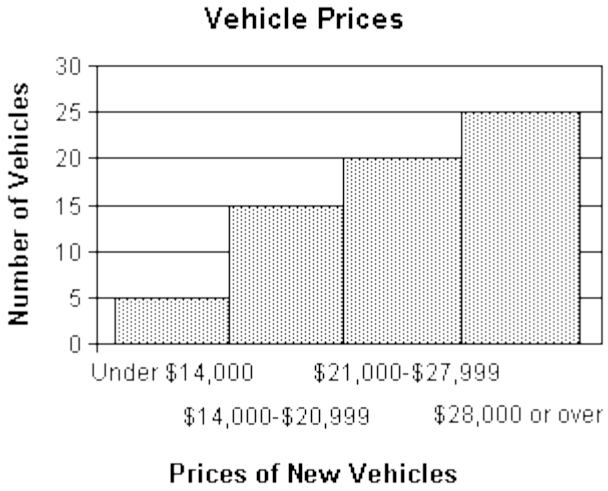
322) What is the ratio of money spent on rent to money spent on transportation?

A) $\frac{24}{5}$ B) $\frac{11}{24}$ C) $\frac{5}{24}$ D) $\frac{24}{11}$

Answer: D

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

A new car dealership has taken an inventory of the vehicles it has in stock. Below is a histogram indicating the number of vehicles in stock in certain price ranges. Use the histogram to answer the question.



323) How many vehicles in stock are priced between $14,000 and $20,999?

A) 3 vehicles B) 5 vehicles C) 10 vehicles D) 15 vehicles

Answer: D

324) How many vehicles in stock are priced $27,999 or less?

A) 20 vehicles B) 25 vehicles C) 55 vehicles D) 50 vehicles

Answer: D

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

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

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

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

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

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

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

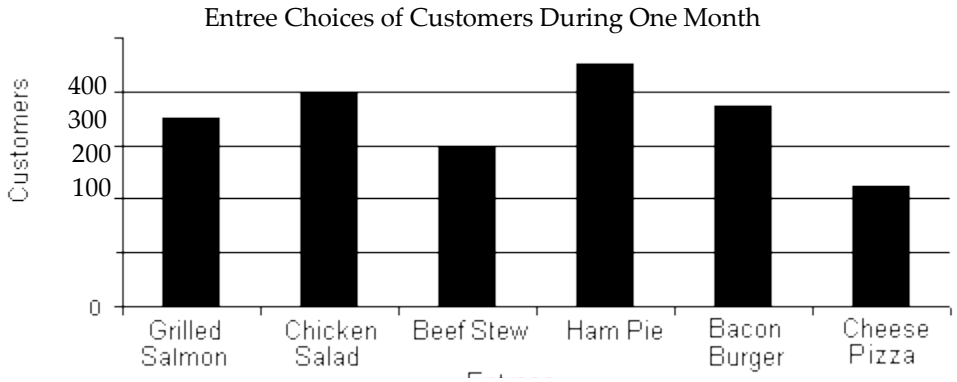
151) B
152) D
153) B
154) B
155) B
156) C
157) B
158) C
159) A
160) B
161) B
162) B
163) D
164) C
165) C
166) D
167) B
168) A
169) C
170) D
171) C
172) D
173) D
174) A
175) B
176) A
177) C
178) A
179) B
180) A
181) C
182) B
183) D
184) B
185) C
186) C
187) B
188) D
189) A
190) D
191) C
192) A
193) D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

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

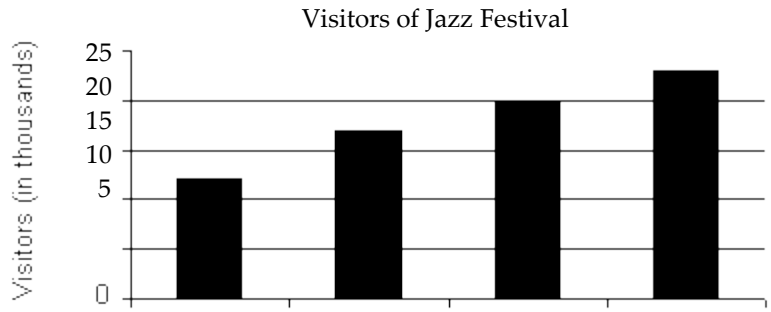
201) B
202) A
203) C
204) A
205) C
206) A
207) B
208) A
209) A
210) D
211) D
212) D
213) B
214) A
215) D
216) C
217) A
218) B
219) A
220) C
221) B
222) A
223) C
224) A
225) B
226) C
227) C
228) B
229) D
230) D
231) D
232) A
233) A
234) B
235) A
236) D
237) B
238) C
239) D
240) D
241) A

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

242)



243)



244) D

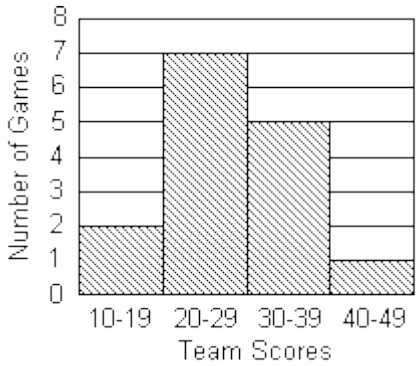
245) C

246) A

247) B

248)

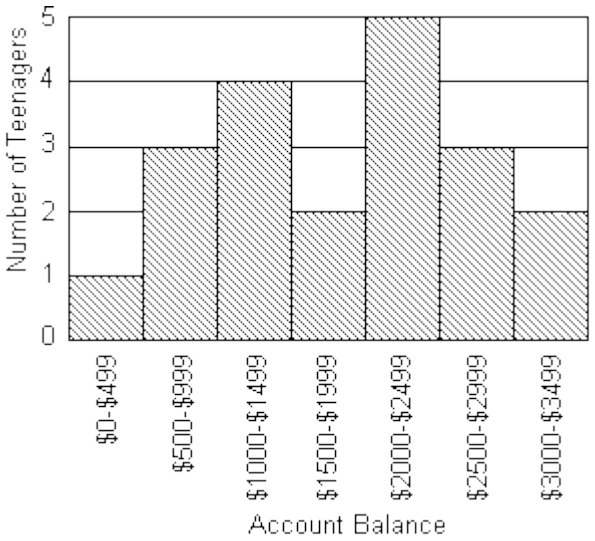
Class Intervals (Scores)	Tally	Class Frequency (Number of Games)
10-19	II	2
20-29	𝍸 II	7
30-39	𝍸	5
40-49	I	1



Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

249)

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



250) A
251) B
252) C
253) C
254) D
255) B
256) 69°F
257) Friday; 3°F
258) D
259) D
260) B
261) D
262) D
263) B
264) B
265) D
266) C
267) C
268) C
269) B
270) B
271) C

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

272) B
273) C
274) B
275) A
276) B
277) D
278) C
279) C
280) D
281) D
282) D
283) B
284) A
285) B
286) D
287) A
288) D
289) A
290) A
291) C
292) B
293) B
294) C
295) D
296) D
297) C
298) C
299) A
300) B
301) B
302) A
303) A
304) A
305) C
306) A
307) A
308) D
309) A
310) D
311) A
312) C
313) C
314) A
315) B
316) C
317) A
318) D
319) B
320) D
321) D

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay

322) D
323) D
324) D

Access Complete Test Bank for Algebra A Combined Approach 6th Martin Gay