Test Bank for Developmental Mathematics 4th Martin Gay

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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) Check your work
B) Do your homework
C) Don't be afraid to ask questions
D) Organize your class materials

Answer: D

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

Answer: C

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

Answer: D

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

Answer: C

Determine the place value of the digit 3 in the whole number.

5) 2530
A) Thousands
B) Tens
C) Ones
D) Hundreds

Answer: B

6) 30,542
A) Thousands
B) Hundred–thousands
C) Tens
D) Ten–thousands

Answer: D

7) 25,304,168
A) Ten–thousands
B) Hundreds
C) Hundred–thousands
D) Thousands

Answer: C

8) 30,500,421
A) Millions
B) Tens
C) Ten–millions
D) Ten–thousands

Answer: C

9) 1392
A) Hundreds
B) Tens
C) Ones
D) Thousands

Answer: A

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10) 403,681,295

A) Thousands
B) Hundred–thousands
C) Millions
D) Hundred–millions

Answer: C

11) 463,981

A) Ten–thousands
B) Hundred–thousands
C) Thousands
D) Hundreds

Answer: C

12) 45,271,903

A) Tens
B) Hundreds
C) Ten–millions
D) Ones

Answer: D

Solve.

13) Write the largest four–digit number that can be made from the digits 6, 5, 7, and 2 if each digit must be used once.

A) 2567
B) 7625
C) 6752
D) 7652

Answer: D

Write the whole number in words.

14) 135,060

A) Thirteen thousand, five hundred sixty
B) One hundred thirty–five thousand, sixty
C) Thirteen thousand, five hundred six
D) One million, thirty–five thousand, sixty

Answer: B

15) 9,300,695

A) Ninety–three thousand, six hundred ninety–five
B) Nine million, three hundred thousand, six hundred ninety–five
C) Nine million, three thousand, six hundred ninety–five
D) Nine million, thirty thousand, six hundred ninety–five

Answer: B

16) 22,000,674

A) Twenty–two million, six hundred seventy–four
B) Two million, two thousand, six hundred seventy–four
C) Twenty–two hundred million, six hundred seventy–four
D) Twenty–two million, six thousand seventy–four

Answer: A

17) 64,568,009

A) Sixty–million, five thousand sixty–eight hundred, nine
B) Sixty–four million, five hundred sixty–eight thousand, nine
C) Sixty million, forty–five thousand, sixty–eight hundred and nine
D) Sixty–four million, five hundred thousand, sixty–eight hundred, nine

Answer: B

18) 235,060

A) Twenty–three thousand, five hundred six
B) Two million, thirty–five thousand, sixty
C) Two hundred thirty–five thousand, sixty
D) Twenty–three thousand, five hundred sixty

Answer: C

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19) 4,200,091

A) Four million, twenty thousand, ninety–one
B) Four million, two hundred thousand, ninety–one
C) Forty–two thousand, ninety–one
D) Four million, two hundred ninety–one

Answer: B

20) 3072

A) Three hundred thousand, seventy–two
B) Thirty thousand, seventy–two
C) Three million, seventy–two
D) Three thousand, seventy–two

Answer: D

21) 70,146

A) Seventy thousand, one hundred forty–six
B) Seven million, one thousand, forty–six
C) Seven thousand, one hundred forty–six
D) Seven hundred one thousand, forty–six

Answer: A

22) Jennilee has 30,000 frequent flier miles.

A) Three thousand
B) Thirty million
C) Thirty thousand
D) Three hundred thousand

Answer: C

23) Paul has the number 24,730,208 showing on his calculator display.

A) Twenty–four million, seven hundred thirty thousand, two hundred eighty
B) Twenty–four million, seven hundred three thousand, two hundred eight
C) Twenty–four million, seven hundred thirty thousand, two hundred eight
D) Twenty–four million, seventy–three thousand, two hundred eight

Answer: C

Write the whole number in standard form.

24) Eight thousand, one hundred sixty–seven

A) 810,067
B) 81,067
C) 800,167
D) 8167

Answer: D

25) Thirty–two thousand, nine hundred five

A) 320,905
B) 3295
C) 32,905
D) 32,950

Answer: C

26) Seven thousand, six

A) 76,000
B) 7006
C) 7060
D) 7600

Answer: B

27) Six hundred thirty–eight thousand, nine hundred ninety–seven

A) 638,000
B) 638,977
C) 638,997,000
D) 638,997

Answer: D

28) Two hundred six thousand, one hundred seven

A) 260,170
B) 206,107
C) 207,106
D) 2617

Answer: B

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29) One hundred million, six thousand
A) 106,000,000 B) 1,600,000 C) 100,006,000 D) 1006
Answer: C

30) Ten million, three hundred fifty–four thousand, two hundred three
A) 1,354,230 B) 135,423 C) 1,354,203 D) 10,354,203
Answer: D

31) Last year the population of a city increased by two thousand, one hundred eight.
A) 2180 B) 2018 C) 2108 D) 21,008
Answer: C

32) Andy collected eighty–two thousand dollars for his campaign.
A) 8200 B) 802,000 C) 80,002 D) 82,000
Answer: D

33) Last year a town consumed three hundred million, six thousand gallons of water.
A) 300,060,000 B) 306,000,000 C) 300,600,000 D) 300,006,000
Answer: D

Write the whole number in expanded form.

34) 238
A) 800 + 30 + 2 B) 2000 + 300 + 80 C) 23,800 D) 200 + 30 + 8
Answer: D

35) 6,214
A) 600 + 10 + 2 B) 4000 + 100 + 20 + 6 C) 6,214,000 D) 6000 + 200 + 10 + 4
Answer: D

36) 35,271
A) 30,000 + 5000 + 200 + 70 + 1 B) 3000 + 500 + 20 + 71
C) 10,000 + 7000 + 200 + 50 + 3 D) 35,271
Answer: A

37) 60,500
A) 60,000 + 500 B) 60,000 + 5000 C) 6000 + 500 D) 6,500,000
Answer: A

38) 7,020
A) 700 + 2 B) 70,000 + 2000 C) 7000 + 20 D) 702,000
Answer: C

39) 50,740
A) 50,000 + 7000 + 40 B) 50,000 + 700 + 40 C) 5000 + 70 + 4 D) 5000 + 700 + 4
Answer: B

40) 32,501,002
A) 30,000,000 + 2,000,000 + 500,000 + 1000 + 2 B) 32,000,000 + 501,000 + 2
C) 30,000,000 + 2,000,000 +500,000 +100 + 2 D) 30,000,000 + 200,000 + 50,000 + 1000 + 2
Answer: A

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The table shows the number of votes each candidate received in the last election.

Candidate	Votes
Mr. Olsen	**2078**
Ms. Li	**3760**
Mr. Barone	**2780**
Ms. Vaporis	**3706**

41) Write in words the number of votes received by Mr. Olsen.

A) twenty thousand, seventy–eight
B) two thousand, seven hundred eighty
C) two thousand, seven hundred eight
D) two thousand, seventy–eight

Answer: D

42) Write in words the number of votes received by Ms. Li.

A) thirty–seven thousand, sixty
B) three thousand, seven hundred sixty
C) three thousand, seventy–six
D) three hundred seventy–six

Answer: B

43) Write the number of votes received by Mr. Barone in expanded form.

A) 2000 + 700 + 80
B) 2700 + 80
C) 2000 + 70 + 8
D) 2000 + 700 + 8

Answer: A

44) Write the number of votes received by Ms. Vaporis in expanded form.

A) 3700 + 6
B) 3000 + 700 + 6
C) 3000 + 70 + 6
D) 300 + 70 + 6

Answer: B

45) Who won the election?

A) Ms. Vaporis
B) Ms. Li
C) Mr. Olsen
D) Mr. Barone

Answer: B

Add.

46)

$$\begin{array}{r} 37 \\ +\ 17 \\ \hline \end{array}$$

A) 54
B) 55
C) 53
D) 44

Answer: A

47)

$$\begin{array}{r} 12 \\ 11 \\ +\ 13 \\ \hline \end{array}$$

A) 45
B) 36
C) 63
D) 54

Answer: B

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48)
  3
  7
  2
  9
+ 3

A) 24 B) 22 C) 25 D) 27

Answer: A

49) 34 + 21 + 21

A) 67 B) 58 C) 76 D) 94

Answer: C

50) 38 + 34

A) 71 B) 72 C) 73 D) 62

Answer: B

51)
  30
  88
   9
  24
+ 48

A) 222 B) 209 C) 199 D) 280

Answer: C

52)
  455
+ 167

A) 622 B) 823 C) 924 D) 912

Answer: A

53) 493 + 181

A) 674 B) 1,322 C) 1,222 D) 1,374

Answer: A

54) 4,436 + 6,587

A) 713 B) 11,023 C) 725 D) 624

Answer: B

55) 5,651 + 964 + 51 + 5,921

A) 11,577 B) 11,487 C) 12,477 D) 12,587

Answer: D

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56)
$$\begin{array}{r} 5{,}665 \\ +\ 9{,}968 \\ \hline \end{array}$$

A) 1,223 B) 1,125 C) 1,226 D) 15,633

Answer: D

57)
$$\begin{array}{r} 9{,}898 \\ 270 \\ 94 \\ +\ 7{,}303 \\ \hline \end{array}$$

A) 17,565 B) 16,465 C) 17,455 D) 16,555

Answer: A

58)
$$\begin{array}{r} 79 \\ 725 \\ 4{,}683 \\ +\ 16123 \\ \hline \end{array}$$

A) 20,610 B) 21,610 C) 21,510 D) 21,590

Answer: B

59)
$$\begin{array}{r} 9{,}465 \\ 976 \\ 13 \\ 3{,}172 \\ +\ 5{,}762 \\ \hline \end{array}$$

A) 18,288 B) 19,278 C) 18,378 D) 19,388

Answer: D

60)
$$\begin{array}{r} 668{,}885 \\ 25{,}281 \\ +\ 2{,}451{,}786 \\ \hline \end{array}$$

A) 3,145,962 B) 3,145,952 C) 3,146,952 D) 3,245,952

Answer: B

61)
$$\begin{array}{r} 3{,}322{,}355 \\ 5{,}417{,}964 \\ +\ 4{,}159{,}078 \\ \hline \end{array}$$

A) 12,899,497 B) 12,909,397 C) 12,999,397 D) 12,899,397

Answer: D

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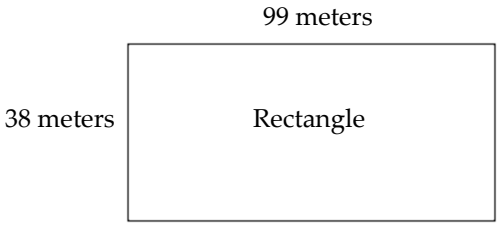
Find the perimeter.

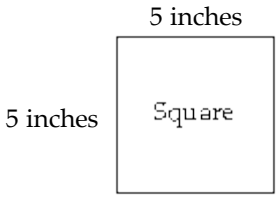
62)



A) 236 meters B) 137 meters C) 3,762 meters D) 274 meters

Answer: D

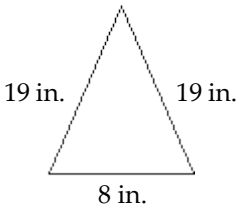
63)



A) 25 in. B) 10 in. C) 15 in. D) 20 in.

Answer: D

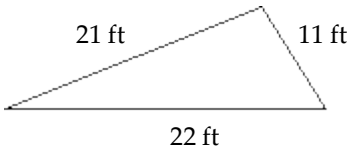
64)



A) 38 in. B) 44 in. C) 46 in. D) 76 in.

Answer: C

65)



A) 43 ft B) 121 ft C) 53 ft D) 54 ft

Answer: D

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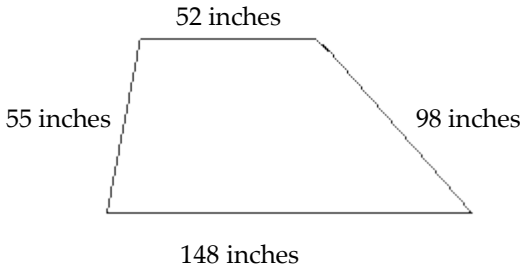
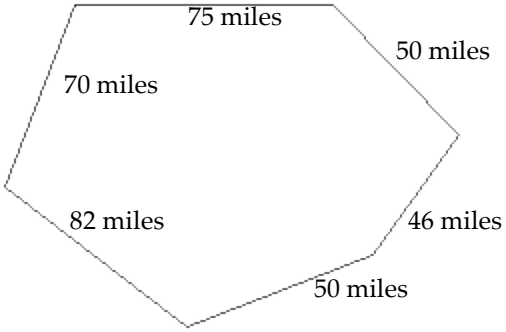
66)



A) 301 in. B) 306 in. C) 300 in. D) 353 in.

Answer: D

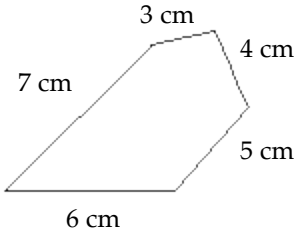
67)



A) 303 mi B) 393 mi C) 373 mi D) 448 mi

Answer: C

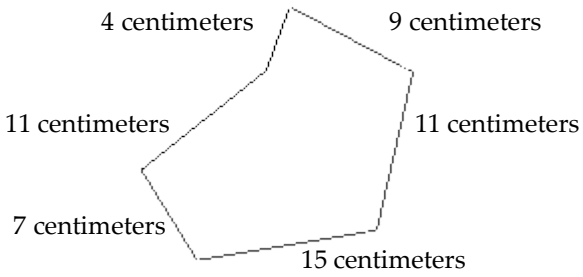
68)



A) 20 cm B) 19 cm C) 18 cm D) 25 cm

Answer: D

69)



A) 46 cm B) 64 cm C) 49 cm D) 57 cm

Answer: D

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Solve.

70) Find the sum of 332 and 6,409.
A) 6,841 B) 6,742 C) 6,741 D) 6,731
Answer: C

71) Find the total of 94, 42, 7, 14, and 365.
A) 522 B) 428 C) 515 D) 157
Answer: A

72) What is 437 increased by 91?
A) 528 B) 527 C) 518 D) 538
Answer: A

73) What is 3,917 plus 563 plus 40?
A) 4,484 B) 4,520 C) 4,530 D) 4,420
Answer: B

74) Last year a company had 5,845 employees. This year the number of employees increased by 1,398. How many employees does the company have now?
A) 7,343 employees B) 7,143 employees C) 7,253 employees D) 7,243 employees
Answer: D

75) A town's population was 137,554. During the last twenty years, the population has increased by 26,079. What is the current population?
A) 163,733 people B) 163,633 people C) 164,633 people D) 162,633 people
Answer: B

76) Jesse is installing an invisible fence in his back yard which measures 112 feet by 69 feet by 85 feet by 99 feet. How many feet of wiring is needed to enclose his yard?
A) 385 feet B) 365 feet C) 355 feet D) 375 feet
Answer: B

77) A store sold 36 rugs on Monday, 18 rugs on Tuesday, and 27 rugs on Wednesday. How many rugs did the store sell in all?
A) 80 rugs B) 81 rugs C) 82 rugs D) 91 rugs
Answer: B

78) Isabelle went shopping for holiday presents for her family. She spent $278 on Monday, $269 on Tuesday, and $183 on Wednesday. What is the total amount of money that she spent on gifts?
A) $820 B) $630 C) $730 D) $720
Answer: C

79) An election for student body president was held over 3 days. On the first day Ben received 159 votes and Jackie received 338 votes. On the second day Ben received 190 votes and Jackie received 285 votes. On the third day Ben received 243 votes and Jackie received 309 votes. How many votes did Jackie receive?
A) 718 B) 932 C) 784 D) 592
Answer: B

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80) It is 74 miles from Waterton to Archer. It is 84 miles from Archer to Fontana. Driving directly, it is 147 miles directly from Waterton to Fontana. It is 43 miles from Fontana to Ridgeport. If Tim drives from Waterton to Archer, then from Archer to Fontana, and finally home to Waterton, how many miles does he drive?

A) 295 B) 348 C) 305 D) 264

Answer: C

Subtract. Check by adding.

81)

$$\begin{array}{r} 66 \\ -\ 45 \\ \hline \end{array}$$

A) 21 B) 111 C) 11 D) 41

Answer: A

82)

$$\begin{array}{r} 85 \\ -\ 45 \\ \hline \end{array}$$

A) 130 B) 40 C) 30 D) 50

Answer: B

83)

$$\begin{array}{r} 765 \\ -\ 125 \\ \hline \end{array}$$

A) 540 B) 640 C) 890 D) 630

Answer: B

84) 558 – 52

A) 610 B) 506 C) 502 D) 406

Answer: B

85) 7,878 – 553

A) 325 B) 7,319 C) 7,219 D) 7,325

Answer: D

86)

$$\begin{array}{r} 7{,}998 \\ -\ 5{,}333 \\ \hline \end{array}$$

A) 7,665 B) 2,599 C) 2,665 D) 2,659

Answer: C

87)

$$\begin{array}{r} 9{,}677 \\ -\ 2{,}335 \\ \hline \end{array}$$

A) 7,332 B) 9,342 C) 7,342 D) 7,272

Answer: C

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88)
$$\begin{array}{r} 81 \\ -\ 17 \\ \hline \end{array}$$

A) 98 B) 104 C) 62 D) 64

Answer: D

89)
$$\begin{array}{r} 52 \\ -\ 39 \\ \hline \end{array}$$

A) 23 B) 13 C) 91 D) 9

Answer: B

90)
$$\begin{array}{r} 713 \\ -\ 75 \\ \hline \end{array}$$

A) 638 B) 788 C) 538 D) 632

Answer: A

91)
$$\begin{array}{r} 859 \\ -\ 493 \\ \hline \end{array}$$

A) 360 B) 1,352 C) 366 D) 266

Answer: C

92)
$$\begin{array}{r} 1{,}988 \\ -\ 561 \\ \hline \end{array}$$

A) 427 B) 1,305 C) 1,425 D) 1,427

Answer: D

93)
$$\begin{array}{r} 7{,}627 \\ -\ 3{,}353 \\ \hline \end{array}$$

A) 7,274 B) 4,268 C) 4,274 D) 4,228

Answer: C

94)
$$\begin{array}{r} 9{,}466 \\ -\ 4{,}655 \\ \hline \end{array}$$

A) 4,701 B) 8,811 C) 4,801 D) 4,811

Answer: D

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95)
35,123
– 5,965

A) 29,152 B) 34,158 C) 29,112 D) 29,158

Answer: D

96)
8,030
– 3,193

A) 4,837 B) 5,947 C) 5,163 D) 6,147

Answer: A

97)
62,556
– 18,561

A) 43,993 B) 43,995 C) 51,995 D) 43,893

Answer: B

98)
90,000
– 19,711

A) 70,289 B) 99,711 C) 89,711 D) 91,399

Answer: A

99) 51,145 – 17,581

A) 33,482 B) 33,562 C) 33,564 D) 40,564

Answer: C

100) 80,000 – 36,191

A) 43,809 B) 107,139 C) 56,191 D) 106,191

Answer: A

101) 6,030 – 2,864

A) 4,834 B) 3,166 C) 4,276 D) 5,876

Answer: B

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

Solve.

102) Fill in the missing digits in the problem.

$$\begin{array}{r} 1_,8_1 \\ -\ 849_ \\ \hline 6,3_1 \end{array}$$

Answer:

$$\begin{array}{r} 14,821 \\ -\ 8490 \\ \hline 6,331 \end{array}$$

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

103) Subtract 2 from 41.
A) 39 B) 40 C) 49 D) 38
Answer: A

104) Find the difference of 82 and 5.
A) 76 B) 78 C) 77 D) 87
Answer: C

105) Subtract 39 from 84.
A) 105 B) 45 C) 37 D) 123
Answer: B

106) Find 751 less 85.
A) 566 B) 664 C) 836 D) 666
Answer: D

107) Find 15 subtracted from 83.
A) 98 B) 68 C) 62 D) 78
Answer: B

108) Francis has a total of $1,403 in her checking account. If she writes a check for each of the items below, how much money will be left in her account?

phone	$ 48
rent	$750
car	$429

A) $1227 B) $175 C) $176 D) $166
Answer: C

109) Rhonda is trading her car in on a new car. The new car costs $24,025. Her car is worth $8,998. How much more money does she need to buy the new car?
A) $15,028 B) $14,927 C) $15,027 D) $15,017
Answer: C

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110) The population of Greenwood County is 910,258. The population of Marshall County is 279,859. The population of Cameron County is 242,580. How much greater is the population of Greenwood County than Cameron County?

A) 630,399 B) 667,678 C) 629,399 D) 667,778

Answer: B

111) Population of Four States from 1970 to 2010

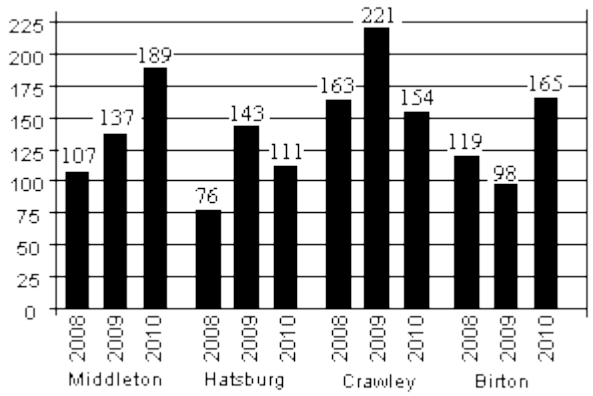
	1970	1980	1990	2000	2010
State A	10,081,158	11,110,285	11,427,409	11,430,602	12,051,683
State B	7,823,194	8,881,826	9,262,044	9,295,297	9,679,052
State C	4,662,498	5,195,392	5,490,212	5,544,159	6,045,521
State D	3,413,864	3,806,103	4,075,970	4,375,099	4,830,784

How much did the population of State C increase from 2,000 to 2,010?

A) 555,309 B) 500,362 C) 556,309 D) 501,362

Answer: D

112) The number of new residents in several towns during the years 2008 to 2010 is given in the following bar graph.



What was the decrease in the number of new residents in Crawley from 2,009 to 2,010?

A) 67 B) 58 C) 68 D) 57

Answer: A

113) A stock worth $263 per share on July 12 dropped to $75 per share on July 31 of the same year. Find how much it lost in value from July 12th to the 31st.

A) $189 B) $192 C) $198 D) $188

Answer: D

114) Claire is reading a 501–page book. If she has just finished reading page 279, how many more pages must she read to finish the book?

A) 223 pages B) 232 pages C) 222 pages D) 332 pages

Answer: C

115) A camera that sells regularly for $360 is discounted by $69 in a sale. What is the sale price?

A) $291 B) $429 C) $69 D) $301

Answer: A

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116) As part of homecoming festivities the student organizations are selling donuts. The fraternities have sold 521,119 donuts; the sororities have sold 219,734 donuts; the band members have sold 347,916 donuts; and the athletes have sold 118,921 donuts. Have they reached their goal of 2 million donuts sold? If not, how many more donuts need to be sold?

A) yes B) no; 792,310

Answer: B

Round the whole number to the given place value.

117) 68 to the nearest ten

A) 80 B) 60 C) 170 D) 70

Answer: D

118) 82,001 to the nearest hundred

A) 82,100 B) 81,900 C) 82,010 D) 82,000

Answer: D

119) 4,062 to the nearest thousand

A) 3,900 B) 5,000 C) 4,100 D) 4,000

Answer: D

120) 38,105 to the nearest thousand

A) 38,000 B) 39,000 C) 48,000 D) 38,100

Answer: A

121) 249,237 to the nearest ten thousand

A) 240,000 B) 249,000 C) 300,000 D) 250,000

Answer: D

122) 17,772,231 to the nearest million

A) 17,772,000 B) 17,800,000 C) 18,000,000 D) 17,000,000

Answer: C

123) 92,995 to the nearest ten

A) 93,000 B) 92,900 C) 92,990 D) 92,000

Answer: A

124) 9,999,997 to the nearest ten

A) 10,000,090 B) 10,000,000 C) 9,999,990 D) 100,000,000

Answer: B

125) A company spent $593,749,565 on advertising. Round the advertising figure to the nearest hundred–thousand.

A) 593,700,000 B) 600,000,000 C) 500,000,000 D) 593,800,000

Answer: A

126) A publishing company sold 37,267,591 books. Round the number of books sold to the nearest ten–million.

A) 37,000,000 B) 30,000,000 C) 40,000,000 D) 37,270,000

Answer: C

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Round the following to the nearest ten, nearest hundred, and nearest thousand.

127) 1247

A)		B)		C)		D)	
Ten	1,250	Ten	1,240	Ten	1,240	Ten	1,250
Hundred	1,200	Hundred	1,300	Hundred	1,200	Hundred	1,300
Thousand	1,000	Thousand	2,000	Thousand	1,000	Thousand	1,000

Answer: A

128) 5890

A)		B)		C)		D)	
Ten	5,900	Ten	5,890	Ten	5,890	Ten	5,900
Hundred	5,900	Hundred	5,800	Hundred	5,900	Hundred	5,800
Thousand	6,000	Thousand	6,000	Thousand	6,000	Thousand	5,000

Answer: C

129) 5192

A)		B)		C)		D)	
Ten	5,190	Ten	5,190	Ten	5,200	Ten	5,200
Hundred	5,200	Hundred	5,100	Hundred	5,100	Hundred	5,200
Thousand	5,000	Thousand	5,000	Thousand	6,000	Thousand	5,000

Answer: A

130) 2379

A)		B)		C)		D)	
Ten	2,370	Ten	2,380	Ten	2,370	Ten	2,380
Hundred	2,300	Hundred	2,400	Hundred	2,400	Hundred	2,300
Thousand	3,000	Thousand	2,000	Thousand	2,000	Thousand	2,000

Answer: B

131) 25,753

A)		B)		C)		D)	
Ten	25,750	Ten	25,750	Ten	25,760	Ten	25,760
Hundred	25,800	Hundred	25,760	Hundred	25,700	Hundred	25,800
Thousand	26,000	Thousand	25,000	Thousand	25,000	Thousand	30,000

Answer: A

132) 22,158

A)		B)		C)		D)	
Ten	22,160	Ten	22,150	Ten	22,160	Ten	22,150
Hundred	22,200	Hundred	22,200	Hundred	22,150	Hundred	22,100
Thousand	22,000	Thousand	22,170	Thousand	23,000	Thousand	23,000

Answer: A

Solve.

133) A number rounded to the nearest hundred is 2,400. Determine the smallest possible number.

A) 2,450 B) 2,351 C) 2,349 D) 2,350

Answer: D

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Estimate the sum or difference by rounding each number to the nearest ten.

134)

52
82
12
63
+ 83

A) 290 B) 300 C) 292 D) 280

Answer: D

135)

54
− 35

A) 19 B) 90 C) 20 D) 10

Answer: D

136)

54
+ 84

A) 140 B) 130 C) 138 D) 100

Answer: B

137)

7,836
− 1,903

A) 5,940 B) 5,900 C) 5,933 D) 5,930

Answer: A

138)

843
− 27

A) 816 B) 820 C) 800 D) 810

Answer: D

Estimate the sum or difference by rounding each number to the nearest hundred.

139)

861
783
952
469
+ 354

A) 3,419 B) 3,420 C) 3,600 D) 3,400

Answer: C

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140)
497
− 349

A) 200 B) 100 C) 148 D) 800

Answer: A

141)
6,351
+ 9,464

A) 15,815 B) 15,900 C) 16,000 D) 15,800

Answer: B

142)
553
962
791
994
+ 291

A) 3,700 B) 3,590 C) 3,600 D) 3,591

Answer: A

143)
868
− 734

A) 100 B) 1,600 C) 200 D) 134

Answer: C

144)
5,576
− 2,943

A) 2,600 B) 2,700 C) 3,000 D) 2,633

Answer: B

Estimate the result of the calculation. Use your estimate to determine if the result appears to be correct or incorrect.

145)
622
394
898
+ 559
2,473

A) Correct. Estimate: 2,500 B) Incorrect. Estimate: 2,700
C) Incorrect. Estimate: 2,600 D) Incorrect. Estimate: 2,400

Answer: A

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146)

$$\begin{array}{r} 425 \\ 292 \\ 229 \\ +\ 452 \\ \hline 1{,}498 \end{array}$$

A) Incorrect. Estimate: 1,600
B) Incorrect. Estimate: 1,300
C) Incorrect. Estimate: 1,400
D) Incorrect. Estimate: 1,500

Answer: C

147)

$$\begin{array}{r} 712{,}372 \\ -\ 276{,}978 \\ \hline 435{,}394 \end{array}$$

A) Correct. Estimate: 400,000
B) Incorrect. Estimate: 200,000
C) Incorrect. Estimate: 300,000
D) Incorrect. Estimate: 500,000

Answer: A

148)

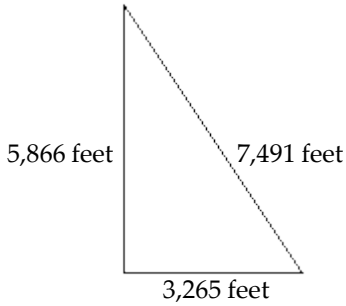
$$\begin{array}{r} 785{,}087 \\ -\ 220{,}444 \\ \hline 764{,}643 \end{array}$$

A) Incorrect. Estimate: 700,000
B) Incorrect. Estimate: 600,000
C) Correct. Estimate: 500,000
D) Incorrect. Estimate: 800,000

Answer: B

Solve.

149) Estimate the perimeter by first rounding each length to the nearest hundred.



A) 8,400 feet
B) 9,576,200 feet
C) 16,700 feet
D) 16,600 feet

Answer: C

Solve the problem by estimating.

150) Andy wants to buy a refrigerator for $799, a stove for $659, and a dishwasher for $549. Round each cost to the nearest hundred to estimate the total cost.

A) $1,900
B) $2,100
C) $2,000
D) $1,800

Answer: C

151) The population of Capital City is 7,365,831 and the population of Spring City is 3,312,652. Round each population to the nearest hundred–thousand to estimate how much larger Capital City is than Spring City.

A) 4,000,000
B) 4,100,000
C) 4,053,000
D) 4,200,000

Answer: B

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152) Linda scored 92, 65, 60, 98, 74, and 100 on her calculus tests. Round each score to the nearest ten to estimate her total score.

A) 500 B) 470 C) 480 D) 490

Answer: D

153) The Pan family took a trip and traveled 265, 649, 639, 898, and 760 miles on 5 consecutive days. Round each distance to the nearest hundred and estimate the distance they traveled.

A) 3,400 miles B) 3,300 miles C) 3,100 miles D) 3,200 miles

Answer: D

154) A local hot dog stand sells 242 hotdogs on an average day. Estimate how many hotdogs they sold in the last 207 days. Round the number of hotdogs and the number of days to the nearest ten.

A) 505,000 B) 50,500 C) 504,000 D) 50,400

Answer: D

155) Juan travelled for 3 weeks in Asia last year and spent $1,571 while he was there. Estimate the average amount he spent each day. Round the number of days to the to the nearest ten and the amount of money spent to the nearest hundred.

A) $80 B) $70 C) $800 D) $700

Answer: A

156) As part of her preparation for lacrosse tryouts, Georgia did 66 leg lifts each day for 73 days. Estimate how many leg lifts she did during that period. Round the number of leg lifts and the number of days to the to the nearest ten.

A) 4,900 B) 1,300 C) 49,000 D) 13,000

Answer: A

Use the distributive property to rewrite the expression.

157) $7(3 + 7)$

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

Answer: B

158) $8(1 + 5)$

A) $8 \cdot 1 + 8 \cdot 5$ B) $8 + 1 + 5$ C) $8 \cdot 1 + 5$ D) $8 \cdot 1 \cdot 5$

Answer: A

159) $38(15 + 44)$

A) $38 \cdot 59$ B) $38 \cdot 15 + 44$ C) $38 + 15 + 44$ D) $38 \cdot 15 + 38 \cdot 44$

Answer: D

Multiply.

160)

$$\begin{array}{r} 38 \\ \times\ \ 7 \\ \hline \end{array}$$

A) 225 B) 266 C) 366 D) 216

Answer: B

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161)
579
× 6

A) 3,374 B) 3,574 C) 3,474 D) 3,484
Answer: C

162)
8,800
× 4

A) 35,300 B) 35,210 C) 35,100 D) 35,200
Answer: D

163)
74,928
× 4

A) 299,682 B) 299,702 C) 299,812 D) 299,712
Answer: D

164) 728 × 5
A) 3,640 B) 3,650 C) 3,540 D) 3,740
Answer: A

165) 8,699 × 9
A) 78,191 B) 78,301 C) 78,391 D) 78,291
Answer: D

166)
307
× 15

A) 4,612 B) 4,598 C) 4,605 D) 555
Answer: C

167)
785
× 29

A) 22,765 B) 22,755 C) 22,775 D) 22,865
Answer: A

168) (17)(129)(0)
A) 2,293 B) 0 C) 2,193 D) 2,183
Answer: B

169) (770)(80)
A) 61,600 B) 61,610 C) 61,590 D) 61,596
Answer: A

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170) (920)(1)(60)

A) 55,190 B) 55,200 C) 55,196 D) 55,210

Answer: B

171) 1,225 × 38

A) 13,475 B) 2,675 C) 46,550 D) 36,758

Answer: C

172) 653 × 939

A) 613,267 B) 613,157 C) 613,167 D) 613,177

Answer: C

173)

1,809
× 308

A) 555,363 B) 19,899 C) 68,742 D) 557,172

Answer: D

174)

1,127
× 344

A) 386,688 B) 387,688 C) 397,688 D) 387,788

Answer: B

175)

1,914
× 2,408

A) 3,843,312 B) 4,746,720 C) 3,919,872 D) 4,608,912

Answer: D

176)

432
× 110

A) 4,752 B) 475,200 C) 43,200 D) 47,520

Answer: D

Estimate the answer by rounding as indicated.

177) Estimate the product by rounding each factor to the nearest hundred.

667 × 877

A) 585,000 B) 630,000 C) 584,959 D) 1,600

Answer: B

178) Estimate the product by rounding each factor to the nearest ten.

994 × 36

A) 1,030 B) 35,780 C) 35,784 D) 39,600

Answer: D

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Solve.

179) Fill in the missing digits in the problem.

$$\begin{array}{r} 3_ \\ \times\ _9 \\ \hline 306 \\ 1{,}020 \\ \hline 1{,}326 \end{array}$$

A) 1, 2 B) 8, 6
C) 4, 3 D) cannot be determined

Answer: C

Multiply.

180) 2×100

A) 300 B) 200 C) 20 D) 2,000

Answer: B

181) 15×1000

A) 150,000 B) 15,000 C) 1,500 D) 150

Answer: B

182) $9{,}031 \cdot 10$

A) 93,010 B) 903,100 C) 93,100 D) 90,310

Answer: D

183) $7 \cdot 8{,}000$

A) 5,600 B) 15,000 C) 56,000 D) 560,000

Answer: C

184) $70 \cdot 600$

A) 4,200 B) 420,000 C) 42,000 D) 13,000

Answer: C

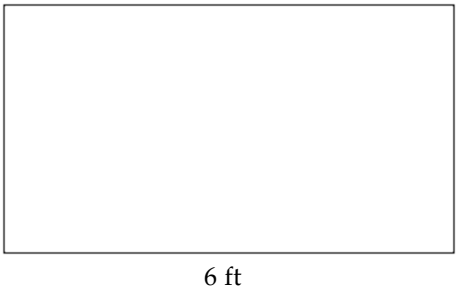
185) $32 \cdot 80{,}000$

A) 25,600,000 B) 400,000 C) 2,560,000 D) 256,000

Answer: C

Find the area of the rectangle.

186)



A) 27 sq ft B) 18 sq ft C) 36 sq ft D) 9 sq ft

Answer: B

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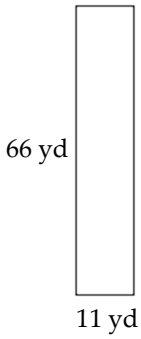
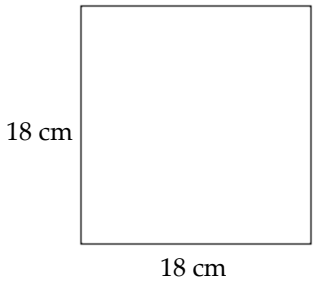
187)



A) 605 sq yd B) 726 sq yd C) 77 sq yd D) 716 sq yd

Answer: B

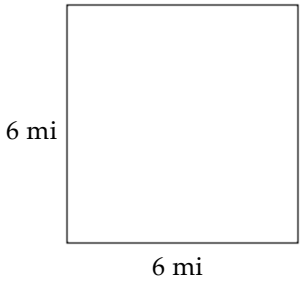
188)



A) 72 sq cm B) 319 sq cm C) 324 sq cm D) 648 sq cm

Answer: C

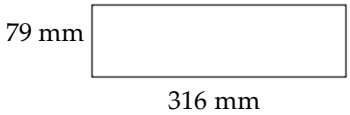
189)



A) 32 sq mi B) 36 sq mi C) 24 sq mi D) 39 sq mi

Answer: B

190)



A) 24,954 sq mm B) 790 sq mm C) 24,964 sq mm D) 24,974 sq mm

Answer: C

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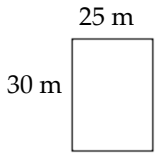
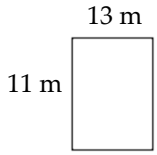
191)



A) 110 sq m B) 750 sq m C) 1,500 sq m D) 55 sq m

Answer: B

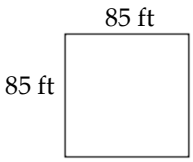
192)



A) 143 sq m B) 286 sq m C) 48 sq m D) 24 sq m

Answer: A

193)



A) 170 sq ft B) 7,225 sq ft C) 14,450 sq ft D) 340 sq ft

Answer: B

Solve.

194) Multiply 88 by 3.

A) 244 B) 364 C) 251 D) 264

Answer: D

195) Find the product of 6 and 498.

A) 3,088 B) 2,888 C) 2,988 D) 2,998

Answer: C

196) The textbook for a history class costs $105. There are 31 students in the class. Find the total cost of the history books for the class.

A) $136 B) $3,224 C) $3,255 D) $3,150

Answer: C

197) The seats in a lecture hall are arranged in 17 rows with 7 seats in each row. Find how many seats are in this room.

A) 112 seats B) 126 seats C) 129 seats D) 119 seats

Answer: D

198) A case of candy bars has 2 layers of candy bars. In each layer are 7 rows with 15 candy bars in each row. Find how many candy bars are in a case.

A) 209 candy bars B) 200 candy bars C) 220 candy bars D) 210 candy bars

Answer: D

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199) An apartment complex has 4 apartment buildings. Each building has 8 floors with 5 apartments per floor. Find how many apartments are in this complex.

A) 150 apartments B) 170 apartments C) 17 apartments D) 160 apartments

Answer: D

200) A rectangular plot of land measure 80 feet by 160 feet. Find its area.

A) 480 sq. ft. B) 12,800 sq. ft. C) 1,280 sq. ft. D) 240 sq. ft.

Answer: B

201) In a distant solar system the diameter of planet A is 6 times as great as the diameter of planet B. The diameter of planet B is 847 miles. Find the diameter of planet A.

A) 5,082 mi. B) 4,982 mi. C) 5,076 mi. D) 5,072 mi.

Answer: A

202) A company rents a mid–size car at $291 per month for seven months. What is the cost for the car rental during this time?

A) $298 B) $2,037 C) $1,986 D) $2,069

Answer: B

203) There are 91 kittens in a room, with an assortment of black and white ears and paws. 23 have totally black ears and 2 white paws, 22 kittens have 1 black ear and 2 white paws, and 46 have no black ears and 1 white paw. How many black paws are in the room?

A) 227 B) 139 C) 136 D) 228

Answer: D

204) During the recent Homecoming football game, State U. scored the following: 3 six–point touchdowns, 3 extra points, 5 three–point field goals, and 1 two–point safety. What was State U.'s final score?

A) 38 points B) 13 points C) 22 points D) 21 points

Answer: A

Divide and then check by multiplying.

205) $\frac{16}{2}$

A) 7 R 1 B) 9 C) 7 R 2 D) 8

Answer: D

206) $\frac{28}{4}$

A) 7 B) 6 R 4 C) 6 R 3 D) 8

Answer: A

207) $24 \div 3$

A) 8 B) 7 R 2 C) 7 R 3 D) 9

Answer: A

208) $35 \div 7$

A) 4 R 7 B) 4 R 6 C) 5 D) 6

Answer: C

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209) $\frac{6}{0}$

A) 6 B) 0 C) 1 D) Undefined

Answer: D

210) $3 \div 1$

A) 0 B) 1 C) 3 D) Undefined

Answer: C

211) $76 \div 76$

A) 0 B) 76 C) 1 D) Undefined

Answer: C

212) $0 \div 62$

A) 62 B) 0 C) 1 D) Undefined

Answer: B

Divide.

213) $5\overline{)15}$

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

Answer: A

214) $6\overline{)24}$

A) 3 R 5 B) 3 R 6 C) 5 D) 4

Answer: D

215) $5\overline{)300}$

A) 62 B) 58 C) 63 D) 60

Answer: D

216) $9\overline{)1{,}251}$

A) 137 B) 142 C) 139 D) 141

Answer: C

217) $5\overline{)6{,}535}$

A) 1,307 R 4 B) 1,305 C) 1,307 D) 1,305 R 1

Answer: C

218) $5{,}980 \div 23$

A) 260 B) 261 R 13 C) 260 R 14 D) 261

Answer: A

219) $26\overline{)54{,}964}$

A) 2,104 B) 2,114 C) 2,124 R 16 D) 2,119 R 8

Answer: B

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220) $\frac{10,659}{51}$

A) 214 R 13 B) 209 C) 219 R 21 D) 199

Answer: B

221) 306 ÷ 4

A) 76 R 2 B) 76 C) 78 D) 76 R 3

Answer: A

222) 142 ÷ 8

A) 17 R 6 B) 23 C) 17 R 7 D) 17

Answer: A

223) 3,152 ÷ 7

A) 450 R 2 B) 452 C) 450 D) 450 R 6

Answer: A

224) 5,481 ÷ 6

A) 912 R 9 B) 913 C) 913 R 3 D) 913 R 2

Answer: C

225) 4,731 ÷ 6

A) 788 R 3 B) 787 R 9 C) 788 D) 788 R 2

Answer: A

226) 13,635 ÷ 19

A) 717 R 12 B) 12 C) 717 D) 717 R 9

Answer: A

227) 439,522 ÷ 900

A) 322 B) 488 C) 488 R 312 D) 488 R 322

Answer: D

228) 328,962 ÷ 350

A) 939 R 312 B) 939 R 202 C) 939 D) 312

Answer: A

229) 5,276 ÷ 21

A) 251 B) 254 R 5 C) 254 R 13 D) 251 R 5

Answer: D

230) 9,360 ÷ 33

A) 283 R 21 B) 286 R 5 C) 286 R 25 D) 283

Answer: A

Solve.

231) Find the quotient of 331 and 7.

A) 49 B) 47 C) 47 R 2 D) 47 R 6

Answer: C

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232) Find 138 divided by 5.

A) 27 B) 30 C) 27 R 3 D) 27 R 4

Answer: C

233) Amy teaches Chinese lessons for $35 per student for a 6–week session. From one group of students, she collects $840. Find how many students are in the group.

A) 24 students B) 14 students C) 28 students D) 26 students

Answer: A

234) One ticket won a prize of $7,704,000. The winning ticket was purchased by 24 people who had pooled their money. Find how many dollars each person receives if they each receive an equal share.

A) $320,000 B) $321,000 C) $32,100 D) $32,200

Answer: B

235) In a distant galaxy the gravity of planet A is 216 times as strong as the gravity of planet B, so objects on planet A weigh 216 times as much as they weigh on planet B. If the object weighs 28,080 pounds on planet A, how much does it weigh on plant B?

A) 1,300 lb. B) 140 lb. C) 130 lb. D) 123 lb.

Answer: C

236) Ms. Losch has a piece of rope 239 feet long that she cuts into pieces for an experiment in her first–grade class. Each piece of rope is to be 8 feet long. How many 8 foot long pieces of rope can she cut from the original piece of rope.

A) 29 pieces of rope B) 36 pieces of rope C) 30 pieces of rope D) 7 pieces of rope

Answer: A

237) A dairy produces 230,000 quarts of milk each day. There are 4 quarts in a gallon. How many gallons of milk are produced each day?

A) 5,750 gal. B) 575,000 gal. C) 920,000 gal. D) 57,500 gal.

Answer: D

238) Malcom wishes to pay off a car loan of $10,224 in 36 months. How large will his monthly payment be?

A) $3,408 B) $284 C) $276 D) $280

Answer: B

239) County records list a rectangular parcel of land as measuring 19,448 square yards. A surveyor measures the length of the parcel of land as 187 yards. What is the width of the parcel?

A) 97 yards B) 113 yards C) 19,261 yards D) 104 yards

Answer: D

240) If the area of a rectangle is 72 square miles and its length is 9 miles, what is its width?

A) 9 miles B) 648 miles C) $\frac{81}{8}$ miles D) 8 miles

Answer: D

Find the average of the list of numbers.

241) 72, 58, 41, 36, 65, 40

A) 58 B) 53 C) 50 D) 52

Answer: D

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242) 20, 24, 21, 25, 52, 19, 21

A) 36 B) 25 C) 21 D) 26

Answer: D

243) 296, 722, 687, 743

A) 636 B) 662 C) 512 D) 612

Answer: D

244) 195, 154, 176, 183, 192

A) 180 B) 179 C) 183 D) 190

Answer: A

245) 49, 43, 35, 39, 49

A) 49 B) 35 C) 43 D) 42

Answer: C

Solve.

246) The following table shows the amount of money a typical student at State University spends each year on various items.

Books	$890
Room & Board	$8,000
Clothes	$2,800
Entertainment	$5,675

Find the average amount of money spent on Clothes and Room & Board.

A) $10,800 B) $4,341.25 C) $5,400 D) $3,282.50

Answer: C

247) 45 increased by 13 is what number?

A) 58 B) 94 C) 85 D) 76

Answer: A

248) 46 decreased by 9 is what number?

A) 37 B) 38 C) 36 D) 47

Answer: A

249) What is the difference of 61 and 8?

A) 54 B) 52 C) 53 D) 63

Answer: C

250) What is the product of 35 and 4?

A) 120 B) 129 C) 140 D) 240

Answer: C

251) What is the quotient of 63 and 7?

A) 10 B) 8 R7 C) 8 R6 D) 9

Answer: D

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252) 312 divided by 6 is what number?
A) 54 B) 55 C) 52 D) 50

Answer: C

253) A corporate executive picks up a rental car that has an odometer reading of 26,628 miles on it. When she returns it, the odometer reads 27,331 miles. How many miles did she drive the rental car?
A) 803 B) 7,159 C) 503 D) 703

Answer: D

254) A store has gross revenues of $6,659, $7,681, $7,096, and $7,782 in its first four weeks of business. What was the gross revenue for those four weeks?
A) $29,768 B) $28,218 C) $29,218 D) $29,318

Answer: C

255) A store orders 13 cases of action figures. Each case contains 82 action figures. How many action figures did the store order?
A) 1,076 B) 1,060 C) 1,056 D) 1,066

Answer: D

256) An airplane is flying west at an altitude of 35,738 feet. Another plane is flying south at an altitude of 32,897 feet. How much above the south–bound plane is the west–bound plane when their paths cross?
A) 3,041 feet B) 2,771 feet C) 2,841 feet D) 2,811 feet

Answer: C

257) Leslie enjoys skiing in the winter. Last year she skied 19 times and spent a total of $589. How much did it cost her each time?
A) $570 B) $11,191 C) $31 D) $32

Answer: C

258) A plot of land which is up for sale is advertised as being 30 acres. If there are 4,840 square yards in an acre, how many square yards does the plot of land cover?
A) 145,800 square yards B) 144,900 square yards
C) 145,200 square yards D) 4,870 square yards

Answer: C

259) The Spring City school system has 3,348 high school students, 3,986 middle school students, and 5,847 elementary school students. How many total students are in the Spring City school system?
A) 13,141 B) 13,089 C) 13,236 D) 13,181

Answer: D

260) Chris had a balance of $34 in his checking account. Since then he made deposits of $188, $416 and $277 and wrote checks for $92, $103, $237, and $378. When all of the deposits are recorded and all of the checks clear, what will balance will he have in his checking account?
A) $1,725 B) $197 C) $105 D) $71

Answer: C

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261) Tammy wanted to determine the gas mileage she was getting on her car. She filled the gas tank on her car when the odometer read 43,913 miles. After 9 days the odometer read 44,345 miles and it took 12 gallons of gas to fill the tank. How many miles to the gallon did Tammy's car achieve?

A) 36 miles per gallon
B) 432 miles per gallon
C) 427 miles per gallon
D) 48 miles per gallon

Answer: A

262) Kayla owns 22 acres of land which she rents to a timber grower for $3,596 per acre per year. Her property taxes are $883 per acre per year. How much profit does she make on the land each year?

A) $79,995
B) $78,229
C) $98,538
D) $59,686

Answer: D

263) In preparation for his new job, Bryan bought two suits at $149 a piece, four shirts at $22 a piece, two pairs of shoes at $72 a piece, four ties at $29 a piece, and five pairs of socks at $6 a piece. What was the total cost of these items?

A) $278
B) $699
C) $646
D) $676

Answer: D

264) Chris and his friends went to the movies. They purchased 2 adult tickets, 4 student tickets and 4 child tickets. How much did they spend on movie tickets?

Theater Ticket Prices	
Adult	$8
Student	$6
Child	$5

A) 60
B) 52
C) 54
D) 40

Answer: A

265) The chart below lists the prices for custom windows. Window sizes are stated width × length, so a window that is 29 × 31 is 29 inches wide and 31 inches tall. John wants to replace five 25 × 31 windows, four 29 × 36 windows and two 29 × 41 windows. How much will the windows cost?

Custom Window Pricing			
Width	25"	27"	29"
Height			
31"	$180	$220	$260
36"	$250	$290	$330
41"	$320	$360	$400

A) $3,160
B) $3,220
C) $3,020
D) $3,370

Answer: C

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266) An apartment complex replaced various appliances in the building and billed each tenant a one-time assessment fee for the update. Use the chart below to calculate the cost per apartment unit if there are 35 units.

JOHN'S APPLIANCES — INVOICE NO. 00356

Bill To:
ABC Apartment Complex
123 Main Street Johnsburg, IL 60123

Quantity	Item Description	Unit Price	Total
20	Quiet Motor Dishwasher	$490	
20	Econo Refrigerator	$380	
12	Super Cycle Washers	$550	
		Total Cost for all Items	

A) $40.57 B) $657.14 C) $685.71 D) $811.43

Answer: C

Write using exponential notation.

267) $7 \cdot 7$

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

Answer: C

268) $5 \cdot 5 \cdot 5$

A) $3 \cdot 5$ B) 5^3 C) 5^1 D) 3^5

Answer: B

269) $3 \cdot 3 \cdot 3 \cdot 3$

A) 3^2 B) 12 C) 3^4 D) 4^3

Answer: C

270) $8 \cdot 8 \cdot 8 \cdot 8 \cdot 8$

A) 5^8 B) 8^0 C) $5 \cdot 8$ D) 8^5

Answer: D

271) $18 \cdot 18 \cdot 18 \cdot 18$

A) 18^4 B) 18^1 C) 4^{18} D) $4 \cdot 18$

Answer: A

272) $19 \cdot 19 \cdot 19 \cdot 19 \cdot 19$

A) $5 \cdot 19$ B) $5 \cdot 5^{19}$ C) 5^{19} D) 19^5

Answer: D

273) $6 \cdot 6 \cdot 3 \cdot 3 \cdot 3 \cdot 3$

A) $6 \cdot 3^6$ B) 18^6 C) $6^2 \cdot 3^4$ D) $2^6 \cdot 4^3$

Answer: C

274) $6 \cdot 6 \cdot 5 \cdot 5 \cdot 5 \cdot 5 \cdot 8$

A) $(6 \cdot 5 \cdot 8)^7$ B) $6 \cdot 5 \cdot 8^7$ C) $6^2 \cdot 5^4 \cdot 8$ D) $2^6 \cdot 3^5 \cdot 1^8$

Answer: C

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Evaluate.

275) 5^2

A) 10 B) 32 C) 36 D) 25

Answer: D

276) 10^3

A) 59,049 B) 1,000 C) 30 D) 729

Answer: B

277) 10^4

A) 10,000 B) 1,000 C) 40 D) 1,048,576

Answer: A

278) 9^5

A) 531,441 B) 1,953,125 C) 45 D) 59,049

Answer: D

279) 1^{20}

A) 0 B) 20 C) Not defined. D) 1

Answer: D

280) 5^1

A) 1 B) 5 C) 0 D) Not defined.

Answer: B

281) $7 \cdot 5^3$

A) 42,875 B) 105 C) 875 D) 132

Answer: C

Find the square root.

282) $\sqrt{36}$

A) 1,296 B) 5 C) 6 D) 7

Answer: C

283) $\sqrt{144}$

A) 20,736 B) 11 C) 13 D) 12

Answer: D

284) $\sqrt{1}$

A) 2 B) 1 C) 0 D) undefined

Answer: B

Simplify.

285) $240 \div 8 - 3$

A) 235 B) 48 C) 229 D) 27

Answer: D

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286) $14 + 19 \cdot 30$

A) 584 B) 990 C) 296 D) 63

Answer: A

287) $7 \cdot 3 - 1$

A) 20 B) 14 C) 21 D) 22

Answer: A

288) $7^2 - 4 \cdot 6$

A) 54 B) 25 C) 270 D) 126

Answer: B

289) $13 \cdot 6 + 2 \cdot 19$

A) 1,520 B) 572 C) 116 D) 1,976

Answer: C

290) $0 \div 4 + 6 \cdot 8$

A) 52 B) 80 C) 48 D) Undefined

Answer: C

291) $48 \div 0 + 2$

A) 24 B) 50 C) Undefined D) 2

Answer: C

292) $8 \cdot 5 + \{12 \div [8 - (3 + 2)]\}$

A) 45 B) 44 C) 46 D) 43

Answer: B

293) $81 \div 3 + \{9 \cdot [18 - (2 \cdot 2)]\}$

A) 143 B) 153 C) 156 D) 148

Answer: B

294) $[29 - (4 + 6) \div 2] - [1 + 18 \div 3]$

A) 17 B) 12 C) 14 D) 24

Answer: A

295) $(56 - 16) \cdot [(80 + 20 \div 5) - (8 \cdot 8 - 4 \cdot 4)]$

A) 1,540 B) 1,440 C) 1,497 D) 1,404

Answer: B

296) $3 \cdot \{(300 - 60 \div 5) - [3 \cdot 22 - (8 - 2 \cdot 3)]\}$

A) 672 B) 2,448 C) −828 D) 622

Answer: A

297) $\{[57 - 2 \cdot 5] - [72 \div (1 + 2)]\} \cdot 6$

A) 174 B) 204 C) 138 D) 126

Answer: C

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298) $(4 + 8)[7 + (4 + 8)]$

A) 228 B) 27 C) 96 D) 31

Answer: A

299) $7[4 + 8(6^2)]$

A) 16,156 B) 18,928 C) 132,496 D) 2,044

Answer: D

300) $(4 + 4)[3 + (8 + 6)]$

A) 50 B) 136 C) 272 D) 816

Answer: B

301) $6[4^2 + 8(3 + 5)]$

A) 1,152 B) 480 C) 88 D) 270

Answer: B

302) $\dfrac{203 + 7}{3^2 - 4}$

A) 63 B) 40 C) 42 D) 105

Answer: C

303) $\dfrac{28(17 - 14) - 6}{3^2 - 3}$

A) 13 B) 14 C) 26 D) 15

Answer: A

304) $8\sqrt{81} + 2\sqrt{36}$

A) 720 B) 74 C) 15 D) 84

Answer: D

305) $\dfrac{\sqrt{81} + 9}{17 + 2(18 - 9) - 4^2 - 10}$

A) 18 B) 81 C) 9 D) 2

Answer: D

306) $[\sqrt{49} \div (10 - 3) + 9^2] - (\sqrt{9} + \sqrt{1})^2$

A) 90 B) 72 C) 74 D) 66

Answer: D

307) $(52 - 20) \cdot [(80 + 25 \div 5) - (7 \cdot 7 - 2 \cdot 2)]$

A) 1,337 B) 1,280 C) 1,244 D) 1,380

Answer: B

308) $4 \cdot \{(300 - 90 \div 5) - [3 \cdot 20 - (8 - 2 \cdot 3)]\}$

A) 896 B) –604 C) 2,672 D) 846

Answer: A

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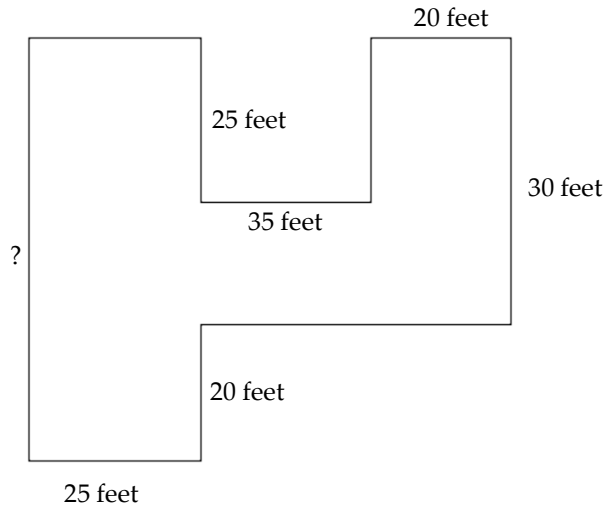
Solve.

309) Six swimming pools for a major hotel chain have the shape and dimensions shown below. One supplier is providing a tile border for all of the pools. He needs to know the perimeter of all six pools to get a cost estimate. Find the total perimeter.

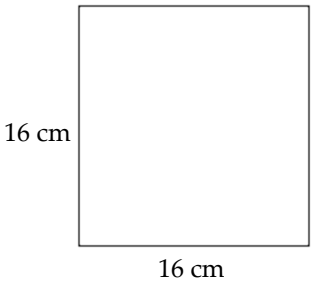


A) 1,575 feet B) 310 feet C) 315 feet D) 1,860 feet

Answer: D

Find the area of the square.

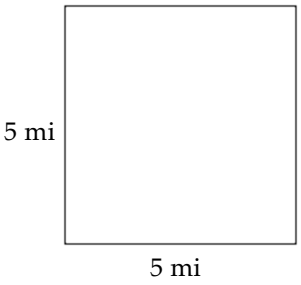
310)



A) 64 sq cm B) 251 sq cm C) 256 sq cm D) 512 sq cm

Answer: C

311)



A) 28 sq mi B) 20 sq mi C) 25 sq mi D) 21 sq mi

Answer: C

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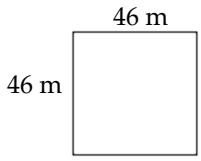
312)



A) 4,232 sq m B) 184 sq m C) 2,116 sq m D) 92 sq m

Answer: C

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

difference	**area**	**square root**	**addend**
divisor	**minuend**	**place value**	**factor**
quotient	**subtrahend**	**exponent**	**digits**
sum	**whole numbers**	**perimeter**	**dividend**
average	**product**		

313) The _____ are 0, 1, 2, 3. . .

A) digits B) place value C) factor D) whole numbers

Answer: D

314) The _____ of a polygon is its distance around or the sum of the lengths of its sides.

A) area B) product C) exponent D) perimeter

Answer: D

315) The position of each digit in a number determines its _____.

A) dividend B) sum C) place value D) square root

Answer: C

316) A(n) _____ is a shorthand notation for repeated multiplication of the same factor.

A) exponent B) addend C) quotient D) factor

Answer: A

317) To find the _____ of a rectangle, multiply length times width.

A) perimeter B) area C) sum D) product

Answer: B

318) A(n) _____ of a number is one of two identical factors of the number.

A) quotient B) subtrahend C) minuend D) square root

Answer: D

319) The _____ used to write numbers are 0, 1 ,2 ,3 ,4 ,5 ,6 ,7 ,8, and 9.

A) whole numbers B) factor C) digits D) place value

Answer: C

320) The _____ of a list of numbers is their sum divided by the number of numbers.

A) average B) place value C) perimeter D) area

Answer: A

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321) The 5 above is called the _____.
A) dividend B) divisor C) quotient D) difference
Answer: B

322) The 35 above is called the _____.
A) quotient B) dividend C) divisor D) difference
Answer: B

323) The 7 above is called the _____.
A) divisor B) dividend C) quotient D) difference
Answer: C

324) The 3 above is called the _____.
A) subtrahend B) factor C) addend D) product
Answer: B

325) The 6 above is called the _____.
A) product B) factor C) sum D) quotient
Answer: A

326) The 20 above is called the _____.
A) subtrahend B) minuend C) difference D) addend
Answer: B

327) The 9 above is called the _____.
A) addend B) subtrahend C) difference D) minuend
Answer: B

328) The 11 above is called the _____.
A) addend B) minuend C) subtrahend D) difference
Answer: D

329) The 4 above is called the _____.
A) sum B) addend C) minuend D) factor
Answer: B

330) The 21 above is called the _____.
A) quotient B) product C) sum D) difference
Answer: C

Simplify.

331) Write 92,775 in words.
A) ninety–two thousand, seventy–seven hundred, five
B) nine thousand, seven hundred seventy–five
C) ninety–two thousand, seven hundred seventy–five
D) ninety thousand, seven hundred seventy–five
Answer: C

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332) Write "thirty–six thousand six hundred thirty–nine" in standard form.

A) 306,639 B) 360,639 C) 366,039 D) 36,639

Answer: D

333) $96 + 28$

A) 125 B) 124 C) 114 D) 123

Answer: B

334) $957 - 161$

A) 794 B) 696 C) 1,118 D) 796

Answer: D

335)

$$\begin{array}{r} 813 \\ \times\ 60 \\ \hline \end{array}$$

A) 48,780 B) 47,780 C) 58,780 D) 49,780

Answer: A

336) $4{,}118 \div 18$

A) 228 R 6 B) 14 C) 228 D) 228 R 14

Answer: D

337) $3^3 \cdot 5^2$

A) 759,375 B) 675 C) 90 D) 225

Answer: B

338) $\sqrt{63} \cdot \sqrt{63}$

A) 16 B) 126 C) 63 D) 3,969

Answer: C

339) $0 \div 82$

A) 82 B) 1 C) 0 D) undefined

Answer: C

340) $72 \div 0$

A) 1 B) 2 C) 0 D) undefined

Answer: D

341) $(7^2 - 3) \cdot 8$

A) 368 B) 128 C) 25 D) 224

Answer: A

342) $8 + 4 \div 2 \cdot 4 - 9$

A) 7 B) 15 C) 25 D) 39

Answer: A

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343) $\dfrac{100 \div 10 \cdot 2}{(\sqrt{64} - \sqrt{49})^2 + 1}$

A) 40 B) 5 C) 20 D) 10

Answer: D

344) $2[(9 - 5)^2 + (18 - 16)^2] + 13$

A) 2 B) 53 C) 66 D) 27

Answer: B

345) $2{,}268 \cdot 1{,}000$

A) 226,800 B) 226,810,000 C) 22,681,000 D) 2,268,000

Answer: D

346) $7{,}000 \cdot 1{,}400$

A) 980,000 B) 98,000 C) 98,000,000 D) 9,800,000

Answer: D

347) Round 53,021 to the nearest thousand.

A) 53,000 B) 54,000 C) 53,100 D) 63,000

Answer: A

Estimate the sum or difference by rounding each number to the nearest hundred.

348) 7,371 + 4,229 + 2,964

A) 14,600 B) 14,700 C) 14,500 D) 14,400

Answer: A

349) 961 – 743

A) 300 B) 200 C) 218 D) 1,700

Answer: A

Solve.

350) Subtract 6 from 45.

A) 40 B) 38 C) 39 D) 49

Answer: C

351) Find the sum of 25 and 209.

A) 468 B) 184 C) 234 D) 5,225

Answer: C

352) Find the product of 17 and 608.

A) 10,336 B) 10,344 C) 1,156 D) 10,328

Answer: A

353) Find the quotient of 124 and 15.

A) 8 R 5 B) 9 R 4 C) 8 R 4 D) 7 R 7

Answer: C

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354) Amy teaches Chinese lessons for $65 per student for a 6–week session. From one group of students, she collects $2,665. Find how many students are in the group.

A) 31 students B) 43 students C) 45 students D) 41 students

Answer: D

355) Becky is trading her car in on a new car. The new car costs $24,025. Her car is worth $5,998. How much more money does she need to buy the new car?

A) $18,027 B) $17,927 C) $18,028 D) $18,017

Answer: A

356) The seats in a lecture hall are arranged in 20 rows with 7 seats in each row. Find how many seats are in this room.

A) 147 seats B) 150 seats C) 133 seats D) 140 seats

Answer: D

357) In preparation for his new job, Bryan bought two suits at $159 a piece, four shirts at $24 a piece, two pairs of shoes at $74 a piece, four ties at $25 a piece, and five pairs of socks at $5 a piece. What was the total cost of these items?

A) $287 B) $707 C) $662 D) $687

Answer: D

Find the perimeter and the area of the figure.

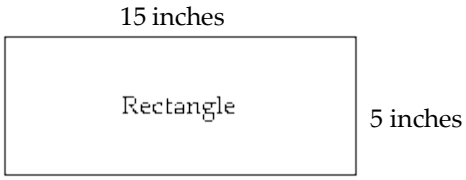
358)



A) perimeter: 81 mi; area: 36 sq mi B) perimeter: 18 mi; area: 81 sq mi
C) perimeter: 36 mi; area: 324 sq mi D) perimeter: 36 mi; area: 81 sq mi

Answer: D

359)



A) perimeter: 75 in.; area: 40 sq in. B) perimeter: 20 in.; area: 75 sq in.
C) perimeter: 40 in.; area: 150 sq in. D) perimeter: 40 in.; area: 75 sq in.

Answer: D

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

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

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101) B
102)
$$\begin{array}{r} 14{,}821 \\ -\ 8490 \\ \hline 6{,}331 \end{array}$$
103) A
104) C
105) B
106) D
107) B
108) C
109) C
110) B
111) D
112) A
113) D
114) C
115) A
116) B
117) D
118) D
119) D
120) A
121) D
122) C
123) A
124) B
125) A
126) C
127) A
128) C
129) A
130) B
131) A
132) A
133) D
134) D
135) D
136) B
137) A
138) D
139) C
140) A
141) B
142) A
143) C
144) B
145) A
146) C
147) A

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

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

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248) A
249) C
250) C
251) D
252) C
253) D
254) C
255) D
256) C
257) C
258) C
259) D
260) C
261) A
262) D
263) D
264) A
265) C
266) C
267) C
268) B
269) C
270) D
271) A
272) D
273) C
274) C
275) D
276) B
277) A
278) D
279) D
280) B
281) C
282) C
283) D
284) B
285) D
286) A
287) A
288) B
289) C
290) C
291) C
292) B
293) B
294) A
295) B
296) A
297) C

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298) A
299) D
300) B
301) B
302) C
303) A
304) D
305) D
306) D
307) B
308) A
309) D
310) C
311) C
312) C
313) D
314) D
315) C
316) A
317) B
318) D
319) C
320) A
321) B
322) B
323) C
324) B
325) A
326) B
327) B
328) D
329) B
330) C
331) C
332) D
333) B
334) D
335) A
336) D
337) B
338) C
339) C
340) D
341) A
342) A
343) D
344) B
345) D
346) D
347) A

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348) A
349) A
350) C
351) C
352) A
353) C
354) D
355) A
356) D
357) D
358) D
359) D

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