Prealgebra 9th edition Martin-Gay Test Bank

SKU: 9780138197186-TEST-BANK

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

Answer: C

2) Which of these is NOT listed as a tip to help you succeed in this course?
A) Choose to attend all class periods and do your homework.
B) Read your textbook after you attend class.
C) Form study groups and/or exchange names and e- mail addresses.
D) Know how to get help if you need it.

Answer: B

3) Which of these is NOT an end- of- chapter component designed to help you understand the concepts of the chapter?
A) Calculator Exercises
B) Chapter Tests
C) Chapter Highlights
D) Vocabulary Checks

Answer: A

4) Which of these is listed as one of several steps in preparing for an exam?
A) Skip the concepts and definitions in the Chapter Highlights at the end of the chapter.
B) Practice working out exercises by working the Chapter Review.
C) Review your class notes, and skip reviewing previous homework assignments.
D) Leave for the exam as late as possible to increase your amount of study time.

Answer: B

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

5) 2530
A) thousands
B) ones
C) tens
D) hundreds

Answer: C

6) 30,542
A) ten- thousands
B) tens
C) thousands
D) hundred- thousands

Answer: A

7) 25,304,168
A) ten- thousands
B) thousands
C) hundred- thousands
D) hundreds

Answer: C

8) 30,500,421
A) ten- thousands
B) millions
C) tens
D) ten- millions

Answer: D

9) 1392
A) thousands
B) ones
C) hundreds
D) tens

Answer: C

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10) 403,681,295

A) millions
B) hundred- thousands
C) hundred- millions
D) thousands

Answer: A

11) 463,981

A) ten- thousands
B) hundreds
C) thousands
D) hundred- thousands

Answer: C

12) 45,271,903

A) hundreds
B) tens
C) ten- millions
D) ones

Answer: D

Write the whole number in words.

13) 483

A) four thousand, eighty- three
B) four hundred thirty- eight
C) four thousand, eight hundred thirty
D) four hundred eighty- three

Answer: D

14) 3072

A) three hundred thousand, seventy- two
B) three thousand, seven hundred twenty
C) thirty thousand, seventy- two
D) three thousand, seventy- two

Answer: D

15) 5870

A) five thousand, eight hundred seven
B) five thousand, eight hundred seventy
C) fifty- eight thousand, seventy
D) five hundred eighty- seven

Answer: B

16) 135,060

A) thirteen thousand, five hundred sixty
B) one million, thirty- five thousand, sixty
C) one hundred thirty- five thousand, sixty
D) thirteen thousand, five hundred six

Answer: C

17) 9,300,695

A) nine million, thirty thousand, six hundred ninety- five
B) ninety- three thousand, six hundred ninety- five
C) nine million, three hundred thousand, six hundred ninety- five
D) nine million, three thousand, six hundred ninety- five

Answer: C

18) 22,000,674

A) two million, two thousand, six hundred seventy- four
B) twenty- two million, six hundred seventy- four
C) twenty- two million, six thousand seventy- four
D) twenty- two hundred million, six hundred seventy- four

Answer: B

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19) 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

20) 235,060

A) twenty- three thousand, five hundred six
B) two hundred thirty- five thousand, sixty
C) twenty- three thousand, five hundred sixty
D) two million, thirty- five thousand, sixty

Answer: B

21) 4,200,091

A) four million, twenty thousand, ninety- one
B) four million, two hundred thousand, ninety- one
C) four million, two hundred ninety- one
D) forty- two thousand, ninety- one

Answer: B

22) 70,146

A) seven hundred one thousand, forty- six
B) seven thousand, one hundred forty- six
C) seven million, one thousand, forty- six
D) seventy thousand, one hundred forty- six

Answer: D

Write the number in the sentence in words.

23) Jennilee has 30,000 frequent flier miles.

A) thirty million
B) thirty thousand
C) three thousand
D) three hundred thousand

Answer: B

24) There were 961 cars parked in the lot outside a large mall.

A) six hundred nine
B) nine thousand sixty- one
C) nine hundred sixty- one
D) one hundred sixty- nine

Answer: C

25) The Petronas Tower 1, in Kuala Lumpur, Malaysia, is 1483 feet tall.

A) fourteen thousand, eight hundred thirty
B) one thousand, four hundred eighty- three
C) one thousand, four hundred thirty- eight
D) fourteen thousand, eighty- three

Answer: B

26) The highest point in California is Mount Whitney at an elevation of 14,494 feet.

A) fourteen thousand, four hundred ninety- four
B) one thousand, four hundred ninety- four
C) fourteen thousand, nine hundred forty- nine
D) one hundred forty thousand, four hundred ninety- four

Answer: A

27) The average population of the suburbs around a certain large city is 72,018.

A) seventy- two hundred, eighteen
B) seven thousand, two hundred eighteen
C) seventy- two thousand, one hundred eight
D) seventy- two thousand, eighteen

Answer: D

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28) The control center was suddenly unable to track the satellite when it reached a distance of 128,615 miles from the earth's surface.
A) one hundred twenty thousand, eighty- six hundred, fifteen
B) one hundred twenty- eight million, six hundred fifteen
C) one hundred twenty- eight thousand, six hundred fifteen
D) six hundred fifteen thousand, one hundred twenty- eight

Answer: C

29) One of the statistics to come out of the election was that 45,826,498 people, or about half the population, cast votes.
A) forty- five billion, eight hundred twenty- six million, four hundred ninety- eight thousand
B) forty- five million, eight hundred twenty- six thousand, four hundred ninety- eight
C) forty- five thousand, eight hundred twenty- six hundred, four hundred, ninety- eight
D) forty- five million, eight hundred thousand, twenty- six hundred, four hundred ninety- eight

Answer: B

30) The population of Annie's hometown is approximately 1,650,000.
A) one million, six hundred fifty thousand
B) sixteen million, five hundred thousand
C) one hundred sixty- five thousand
D) one million, sixty- five thousand

Answer: A

31) Paul has the number 24,730,208 showing on his calculator display.
A) twenty- four million, seven hundred thirty thousand, two hundred eight
B) twenty- four million, seven hundred thirty thousand, two hundred eighty
C) twenty- four million, seventy- three thousand, two hundred eight
D) twenty- four million, seven hundred three thousand, two hundred eight

Answer: A

Write the whole number in standard form.

32) Eight thousand, one hundred sixty- seven
A) 800,167
B) 8167
C) 810,067
D) 81,067

Answer: B

33) Thirty- two thousand, nine hundred five
A) 32,905
B) 320,905
C) 3295
D) 32,950

Answer: A

34) Seven thousand, six
A) 76,000
B) 7600
C) 7060
D) 7006

Answer: D

35) Six hundred thirty- eight thousand, nine hundred ninety- seven
A) 638,977
B) 638,997,000
C) 638,997
D) 638,000

Answer: C

36) Two hundred six thousand, one hundred seven
A) 206,107
B) 260,170
C) 207,106
D) 2617

Answer: A

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

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

39) Seven million, nine thousand, five hundred forty- one
A) 7,009,541 B) 790,541 C) 709,541 D) 7,090,541
Answer: A

Write the whole number in the sentence in standard form.

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

41) Jamie drove five hundred twenty- seven miles to visit his parents.
A) 527 B) 5270 C) 572 D) 5027
Answer: A

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

43) The Johnsons have driven their car forty- eight thousand, eight hundred six miles in the last few years.
A) 480,806 B) 48,806 C) 4886 D) 48,860
Answer: B

44) A certain exotic sports car costs three hundred twelve thousand, six hundred ninety- eight dollars.
A) 312,698,000 B) 3,206,980 C) 31,268 D) 312,698
Answer: D

45) The population of BigTown is one million, three hundred thirty- five thousand, five hundred six.
A) 133,506 B) 1,035,506 C) 1,335,506 D) 13,035,560
Answer: C

46) Don figured out that he had lived five hundred eighty- two million, sixteen thousand seconds.
A) 582,000,016,000 B) 58,216,000 C) 582,160,000 D) 582,016,000
Answer: D

47) The volume of water in the lake is eight hundred twenty- one million, ninety- four thousand, six hundred thirteen gallons.
A) 821,940,613 B) 82,194,613 C) 821,094,613 D) 821,000,094,613
Answer: C

48) Last year a town consumed ninety- seven million, six thousand twenty- two gallons of water.
A) 97,006,220 B) 97,006,022 C) 976,022 D) 97,060,022
Answer: B

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Write the whole number in expanded form.

49) 652

A) 6000 + 500 + 20 B) 200 + 50 + 6 C) 65,200 D) 600 + 50 + 2

Answer: D

50) 9,285

A) 5000 + 800 + 20 + 9 B) 9,285,000 C) 9000 + 200 + 80 + 5 D) 900 + 80 + 2

Answer: C

51) 86,137

A) 70,000 + 3000 + 100 + 60 + 8 B) 86,137

C) 80,000 + 6000 + 100 + 30 + 7 D) 8000 + 600 + 10 + 37

Answer: C

52) 10,600

A) 10,000 + 600 B) 10,000 + 6000 C) 1,600,000 D) 1000 + 600

Answer: A

53) 9,050

A) 900 + 5 B) 905,000 C) 9000 + 50 D) 90,000 + 5000

Answer: C

54) 70,640

A) 70,000 + 6000 + 40 B) 7000 + 600 + 4 C) 70,000 + 600 + 40 D) 7000 + 60 + 4

Answer: C

55) 2,090,630

A) 2,000,000 + 90,000 + 6000 + 30 B) 200,000 + 90,000 + 600 + 30

C) 2,000,000 + 9000 + 600 + 3 D) 2,000,000 + 90,000 + 600 + 30

Answer: D

56) 57,309,002

A) 50,000,000 + 700,000 + 30,000 + 9000 + 2 B) 57,000,000 + 309,000 + 2

C) 50,000,000 + 7,000,000 + 300,000 + 900 + 2 D) 50,000,000 + 7,000,000 + 300,000 + 9000 + 2

Answer: D

Write the whole number in the sentence in expanded form.

57) A local radio antenna is 1387 feet tall.

A) 10,000 + 3000 + 800 + 7 B) 1000 + 300 + 80 + 7

C) 10,000 + 300 + 80 + 7 D) 1000 + 300 + 87

Answer: B

58) Ron and Sally climbed a mountain having an elevation of 3,271 ft.

A) 30,000 + 200 + 70 + 1 B) 3000 + 200 + 70 + 1

C) 300 + 70 + 2 D) 30,000 + 2000 + 70 + 1

Answer: B

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Solve.

59) Write the largest four- digit number that can be made from the digits 4, 2, 5, and 1 if each digit must be used once.

A) 5421 B) 5412 C) 4521 D) 1245

Answer: A

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

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

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

A) two thousand, seven hundred eight B) two thousand, seventy- eight

C) two thousand, seven hundred eighty D) twenty thousand, seventy- eight

Answer: B

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

A) three thousand, seventy- six B) three hundred seventy- six

C) three thousand, seven hundred sixty D) thirty- seven thousand, sixty

Answer: C

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

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

Answer: B

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

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

Answer: D

64) Who won the election?

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

Answer: A

65) Which candidate received the fewest votes?

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

Answer: C

66) Which candidate was in second place in the election?

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

Answer: C

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The table shows the number of votes received by each candidate in an election along with the amount spent by the candidate on advertising. Use the table to answer the question.

.

Candidate	Number of Votes	Amount Spent on Advertising ($)
Jose Gonzales	**57,209**	**59,104**
Angela Wong	**67,108**	**59,024**
Sue Miller	**67,091**	**102,376**
Tyler Johnson	**41,036**	**66,514**
Sandra Ouye	**41,009**	**72,607**

67) Which candidate received the most votes?
A) Sandra Ouye B) Sue Miller C) Jose Gonzales D) Angela Wong
Answer: D

68) Which candidate received the fewest votes?
A) Tyler Johnson B) Sue Miller C) Sandra Ouye D) Jose Gonzales
Answer: C

69) Which candidate spent the least on advertising?
A) Tyler Johnson B) Angela Wong C) Sandra Ouye D) Jose Gonzales
Answer: B

70) How much was spent on advertising by Tyler Johnson?
A) $72,607 B) $41,036 C) $66,154 D) $66,514
Answer: D

71) How many votes were received by Sue Miller?
A) 67,108 B) 67,091 C) 102,376 D) 67,901
Answer: B

72) Write in words the number of votes received by Jose Gonzales.
A) fifty- seven thousand, twenty- nine B) fifty- seven thousand, two hundred ninety
C) fifty- seven thousand, two hundred nine D) five thousand, seven hundred twenty- nine
Answer: C

73) Write in words the amount spent on advertising by Sue Miller.
A) one hundred twenty- three thousand, seven hundred sixty
B) one hundred twenty- three thousand, seventy- six
C) one hundred twenty thousand, three hundred seventy- six
D) one hundred two thousand, three hundred seventy- six
Answer: D

Add.

74) 21 + 43
A) 55 B) 46 C) 64 D) 37
Answer: C

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75) 26 + 75

A) 91 B) 100 C) 102 D) 101

Answer: D

76)

$$\begin{array}{r} 52 \\ +\,43 \\ \hline \end{array}$$

A) 59 B) 77 C) 86 D) 95

Answer: D

77)

$$\begin{array}{r} 12 \\ 31 \\ +\,21 \\ \hline \end{array}$$

A) 37 B) 55 C) 46 D) 64

Answer: D

78) 14 + 22 + 23

A) 77 B) 68 C) 95 D) 59

Answer: D

79)

$$\begin{array}{r} 6 \\ 5 \\ 3 \\ 3 \\ +\,6 \\ \hline \end{array}$$

A) 23 B) 24 C) 26 D) 21

Answer: A

80)

$$\begin{array}{r} 41 \\ 46 \\ 8 \\ 94 \\ +\,97 \\ \hline \end{array}$$

A) 286 B) 296 C) 358 D) 309

Answer: A

81)

$$\begin{array}{r} 3{,}865 \\ +\,1{,}646 \\ \hline \end{array}$$

A) 1,422 B) 1,401 C) 5,511 D) 1,321

Answer: C

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82)
3,756
270
86
+ 8,822

A) 12,824 B) 12,934 C) 11,834 D) 11,924

Answer: B

83) 60 + 300 + 80

A) 440 B) 340 C) 116 D) 44

Answer: A

84) 8,794 + 2,367

A) 1,526 B) 1,627 C) 1,651 D) 11,161

Answer: D

85) 11,213 + 24,132

A) 35,525 B) 35,345 C) 53,345 D) 35,526

Answer: B

86) 179 + 7,411

A) 7,590 B) 7,600 C) 6,590 D) 7,490

Answer: A

87) 990 + 64,505

A) 64,495 B) 65,495 C) 74,405 D) 66,925

Answer: B

88)
544
+ 597

A) 925 B) 1,141 C) 931 D) 824

Answer: B

89)
278
+ 87

A) 365 B) 366 C) 355 D) 1,148

Answer: A

90)
7,531
+ 663

A) 8,204 B) 8,194 C) 7,194 D) 8,094

Answer: B

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91)
80,992
+ 898

A) 81,890 B) 81,900 C) 89,972 D) 81,790

Answer: A

92)
93,696
+ 35,238

A) 127,834 B) 127,934 C) 128,934 D) 138,934

Answer: C

93) 197 + 591

A) 1,027 B) 788 C) 927 D) 1,088

Answer: B

94) 648 + 828 + 39 + 9,906

A) 11,311 B) 10,321 C) 11,421 D) 10,411

Answer: C

95)
2,882
38
66
+ 9,362

A) 12,348 B) 12,238 C) 11,248 D) 11,338

Answer: A

96)
39
735
4,683
+ 16,123

A) 21,580 B) 21,480 C) 20,580 D) 21,560

Answer: A

97)
6,940
167
94
7,198
+ 9,453

A) 22,842 B) 23,852 C) 22,752 D) 23,742

Answer: B

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98)
80,219
9,128
+ 27,396

A) 117,843 B) 115,743 C) 116,843 D) 116,743

Answer: D

99)
45,561,776
7,771,377
565,588
+ 6,977,784

A) 65,966,817 B) 61,006,525 C) 60,864,395 D) 60,876,525

Answer: D

100)
708,265
68,143
+ 5,400,621

A) 6,177,029 B) 6,187,029 C) 6,277,029 D) 6,167,029

Answer: A

101)
3,259,694
4,005,027
+ 7,295,103

A) 14,659,824 B) 14,559,824 C) 14,560,824 D) 14,559,814

Answer: B

Solve.

102) Find the sum of 626 and 5,045.

A) 5,661 B) 5,771 C) 5,672 D) 5,671

Answer: D

103) Find the total of 88, 29, 7, 11, and 236.

A) 364 B) 371 C) 135 D) 283

Answer: B

104) What is 637 increased by 81?

A) 717 B) 728 C) 708 D) 718

Answer: D

105) What is 4,089 plus 513 plus 30?

A) 4,532 B) 4,605 C) 4,642 D) 4,632

Answer: D

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Subtract.

106)

$$\begin{array}{r} 69 \\ -\ 24 \\ \hline \end{array}$$

A) 145 B) 37 C) 93 D) 45

Answer: D

107)

$$\begin{array}{r} 697 \\ -\ 413 \\ \hline \end{array}$$

A) 184 B) 1,110 C) 284 D) 278

Answer: C

108)

$$\begin{array}{r} 968 \\ -\ 52 \\ \hline \end{array}$$

A) 1,020 B) 912 C) 816 D) 916

Answer: D

109)

$$\begin{array}{r} 92 \\ -\ 35 \\ \hline \end{array}$$

A) 127 B) 67 C) 53 D) 57

Answer: D

110)

$$\begin{array}{r} 715 \\ -\ 155 \\ \hline \end{array}$$

A) 550 B) 460 C) 560 D) 870

Answer: C

111)

$$\begin{array}{r} 922 \\ -\ 57 \\ \hline \end{array}$$

A) 979 B) 765 C) 861 D) 865

Answer: D

112)

$$\begin{array}{r} 2{,}698 \\ -\ 138 \\ \hline \end{array}$$

A) 2,544 B) 2,484 C) 560 D) 2,560

Answer: D

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113)
  8,739
- 1,494

A) 8,245 B) 7,237 C) 7,245 D) 7,177

Answer: C

114)
  5,159
- 2,721

A) 2,438 B) 4,438 C) 2,436 D) 2,396

Answer: A

115) 82,418 - 19,671

A) 62,747 B) 62,745 C) 71,747 D) 62,725

Answer: A

116) 7,010 - 3,798

A) 4,322 B) 3,212 C) 5,722 D) 4,788

Answer: B

117)
  14,351
- 7,795

A) 6,454 B) 13,556 C) 6,554 D) 6,556

Answer: D

118)
  9,010
- 2,458

A) 7,662 B) 6,552 C) 8,462 D) 7,448

Answer: B

119)
  92,439
- 57,795

A) 34,574 B) 34,644 C) 41,644 D) 34,634

Answer: B

120)
  70,000
- 27,689

A) 87,689 B) 42,311 C) 57,689 D) 84,531

Answer: B

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121) 90,000 - 11,263

A) 91,263 B) 81,263 C) 78,737 D) 99,847

Answer: C

122) 83,552 - 7,156

A) 76,096 B) 76,396 C) 84,216 D) 80,396

Answer: B

Solve.

123) Find 7 subtracted from 61.

A) 64 B) 53 C) 54 D) 55

Answer: C

124) Find the difference of 88 and 9

A) 79 B) 80 C) 78 D) 89

Answer: A

125) Subtract 8 from 92.

A) 94 B) 84 C) 83 D) 85

Answer: B

126) Find the difference of 41 and 4.

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

Answer: B

127) Find 28 subtracted from 85.

A) 97 B) 57 C) 47 D) 113

Answer: B

128) Find 512 less 67.

A) 579 B) 441 C) 345 D) 445

Answer: D

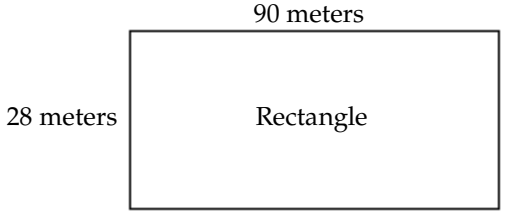
129) Find 48 subtracted from 51.

A) 99 B) 13 C) 3 D) 1

Answer: C

Find the perimeter.

130)



A) 118 m B) 208 m C) 236 m D) 2,520 m

Answer: C

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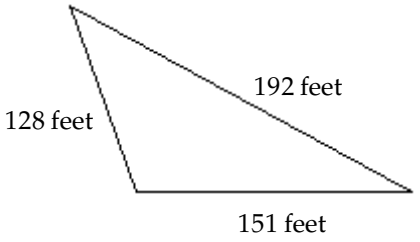
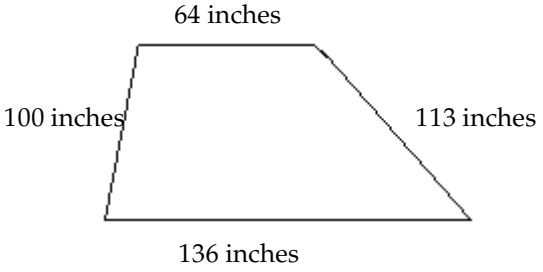
131)



A) 29,312 ft B) 461 ft C) 320 ft D) 471 ft

Answer: D

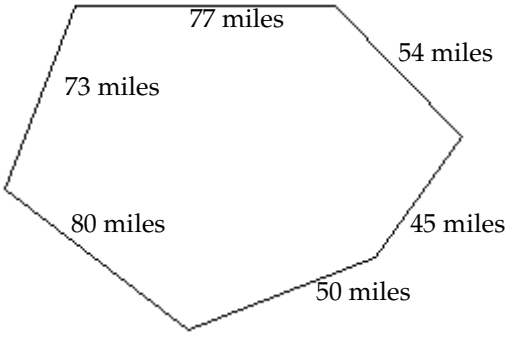
132)



A) 426 in. B) 413 in. C) 349 in. D) 354 in.

Answer: B

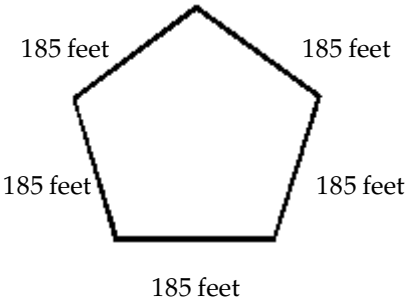
133)



A) 379 mi B) 456 mi C) 399 mi D) 306 mi

Answer: A

134)



A) 1,110 ft B) 34,225 ft C) 925 ft D) 940 ft

Answer: C

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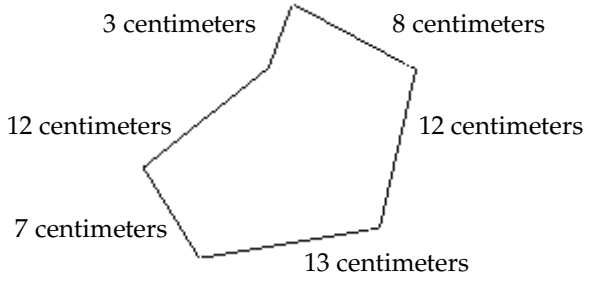
135)



A) 49 cm B) 62 cm C) 43 cm D) 55 cm

Answer: D

Solve.

136) Lew is installing an invisible fence in his back yard which measures 113 feet by 69 feet by 87 feet by 93 feet. How many feet of wiring is needed to enclose his yard?

A) 352 ft B) 372 ft C) 362 ft D) 382 ft

Answer: C

137) A store sold 39 lamps on Monday, 18 lamps on Tuesday, and 26 lamps on Wednesday. How many lamps did the store sell in all?

A) 93 lamps B) 82 lamps C) 84 lamps D) 83 lamps

Answer: D

138) Last year a company had 5,851 employees. This year the number of employees increased by 1,389. How many employees does the company have now?

A) 7,250 employees B) 7,140 employees C) 7,340 employees D) 7,240 employees

Answer: D

139) A town's population in 1976 was 170,383. By the year 2000 it had increased by 26,741. How many people lived there in 2000?

A) 197,124 people B) 197,224 people C) 196,124 people D) 198,124 people

Answer: A

140) A store sold 39 cassette players on Monday, 17 cassette players on Tuesday, and 27 cassette players on Wednesday. How many cassette players did the store sell in all?

A) 84 cassette players B) 83 cassette players C) 82 cassette players D) 93 cassette players

Answer: B

141) Karen went shopping for holiday presents for her family. She spent $366 on Monday, $167 on Tuesday, and $252 on Wednesday. What is the total amount of money that she spent on gifts?

A) $785 B) $895 C) $685 D) $795

Answer: A

142) A corporate executive picks up a rental car that has an odometer reading of 19,587 miles on it. When she returns it, the odometer reads 20,541 miles. How many miles did she drive the rental car?

A) 5,928 mi B) 1,054 mi C) 954 mi D) 754 mi

Answer: C

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143) The Forest County school system has 3,336 high school students, 4,356 middle school students, and 3,979 elementary school students. How many students are in the Forest County school system in total?

A) 11,671 students B) 11,631 students C) 11,726 students D) 11,579 students

Answer: A

144) An election for student body president was held over 3 days. On the first day Jason received 159 votes and Carol received 218 votes. On the second day Jason received 189 votes and Carol received 345 votes. On the third day Jason received 242 votes and Carol received 313 votes. How many votes did Carol receive?

A) 776 votes B) 876 votes C) 590 votes D) 847 votes

Answer: B

145) It is 67 miles from Franklin to Middleton. It is 95 miles from Middleton to Oak Hill. Driving directly, it is 125 miles directly from Franklin to Oak Hill. It is 25 miles from Oak Hill to Jackson. If Juan drives from Franklin to Middleton, then from Middleton to Oak Hill, and finally home to Franklin, how many miles does he drive?

A) 287 mi B) 217 mi C) 277 mi D) 312 mi

Answer: A

146) A stock worth $156 per share on July 12 dropped to $78 per share on July 31 of the same year. Find how much it lost in value from July 12th to the 31st.

A) $88 B) $79 C) $78 D) $82

Answer: C

147) Claire is reading a 401- page book. If she has just finished reading page 263, how many more pages must she read to finish the book?

A) 148 pages B) 138 pages C) 248 pages D) 139 pages

Answer: B

148) A camera that sells regularly for $400 is discounted by $99 in a sale. What is the sale price?

A) $499 B) $311 C) $99 D) $301

Answer: D

149) Janet has a total of $3,003 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) $1,776 C) $1,775 D) $1,766

Answer: B

150) Pat is trading her car in for a new car. The new car costs $30,025. Her car is worth $2,998. How much more money does she need to buy the new car?

A) $27,028 B) $27,017 C) $27,027 D) $26,927

Answer: C

151) The population of Marion County is 764,438. The population of Farmington County is 109,959. The population of Onslow County is 344,469. How much greater is the population of Marion County than Onslow County?

A) 654,579 B) 654,479 C) 419,969 D) 418,969

Answer: C

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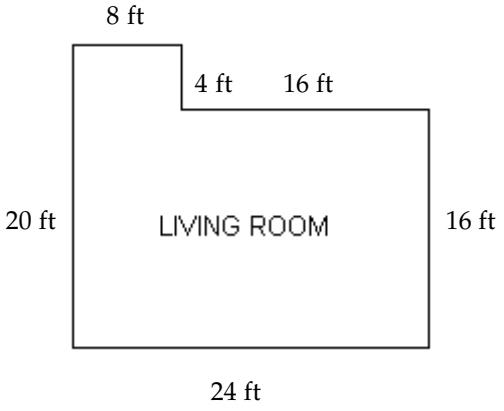
152) As part of homecoming festivities the student organizations are selling lollipops. The fraternities have sold 521,119 lollipops; the sororities have sold 219,734 lollipops; the band members have sold 347,916 lollipops; and the athletes have sold 118,921 lollipops. Have they reached their goal of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

A) yes B) no; 792,310

Answer: B

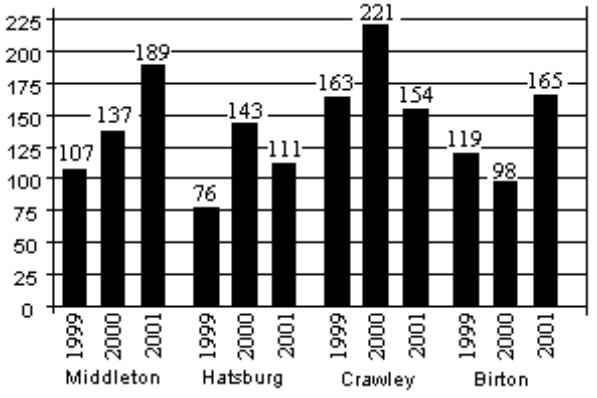
153) Sue wants to add a decorative wallpaper border to her living room. Refer to the diagram below for the dimensions of Sue's living room. How many feet of wallpaper border will she need?



A) 84 ft B) 80 ft C) 72 ft D) 88 ft

Answer: D

The bar graph shows the number of new residents in several towns during the years 1999 to 2001. Use the graph to answer the question.



154) What was the increase in the number of new residents in Birton from 1,999 to 2,000?

A) 21 B) 58 C) 60 D) 23

Answer: A

155) What was the total number of new residents in Hatsburg during the years 1999 to 2001?

A) 433 B) 321 C) 417 D) 330

Answer: D

156) What was the total number of new residents in Birton during the years 1999 to 2001?

A) 330 B) 417 C) 382 D) 282

Answer: C

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157) What was the total number of new residents in the four towns during the year 2000?
A) 599 B) 567 C) 465 D) 619

Answer: A

158) In the year 2000, how many more new residents did Crawley have than Middleton?
A) 78 B) 32 C) 35 D) 84

Answer: D

159) In the year 2000, which town had the smallest number of new residents?
A) Middleton B) Crawley C) Hatsburg D) Birton

Answer: D

160) How many more new residents were there in total in 2001 than in 1999?
A) 172 B) 141 C) 168 D) 154

Answer: D

161) During the period 1999- 2001, how many more new residents were there in Crawley than in Hatsburg?
A) 182 B) 199 C) 186 D) 208

Answer: D

Solve.

162) The table below shows the population of four states in selected years.

Population of Four States from 1960 to 2000
Source: US Census Bureau

	1960	1970	1980	1990	2000
Illinois	10,081,158	11,110,285	11,427,409	11,430,602	12,051,683
Michigan	7,823,194	8,881,826	9,262,044	9,295,297	9,679,052
Indiana	4,662,498	5,195,392	5,490,212	5,544,159	6,045,521
Minnesota	3,413,864	3,806,103	4,075,970	4,375,099	4,830,784

How much did the population of Illinois increase from 1,970 to 1,980?
A) 269,867 B) 269,967 C) 662,006 D) 662,106

Answer: A

163) The table shows the number of restaurants in five different cities.

City	Number of Restaurants
Carlsbad	430
Potters Vale	310
Little Heath	307
Edgbaston	288
Barrow	251

How many more restaurants are there in Carlsbad than in Barrow?
A) 430 B) 681 C) 142 D) 179

Answer: D

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164) The table shows the number of restaurants in five different cities.

City	Number of Restaurants
Carlsbad	477
Potters Vale	331
Little Heath	332
Edgbaston	338
Barrow	314

What is the total number of restaurants in the first three cities listed in the table?

A) 1,240 B) 1,130 C) 1,140 D) 1,792

Answer: C

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

165) Fill in the missing digits in the problem.

1__,2__1
- 709__
7,1__1

Answer:
14,221
- 7090
7,131

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

Round the whole number to the given place.

166) 606 to the nearest ten

A) 610 B) 710 C) 620 D) 600

Answer: A

167) 897 to the nearest ten

A) 910 B) 900 C) 890 D) 880

Answer: B

168) 8,702 to the nearest hundred

A) 8,700 B) 8,800 C) 8,710 D) 8,600

Answer: A

169) 1,370 to the nearest hundred

A) 1,300 B) 1,500 C) 1,400 D) 1,390

Answer: C

170) 57,719 to the nearest hundred

A) 57,700 B) 57,710 C) 57,800 D) 57,600

Answer: A

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171) 3,310 to the nearest thousand

A) 4,000 B) 2,900 C) 3,000 D) 3,100

Answer: C

172) 55,139 to the nearest thousand

A) 55,000 B) 56,000 C) 65,000 D) 55,100

Answer: A

173) 75,754 to the nearest thousand

A) 80,000 B) 76,000 C) 75,800 D) 75,000

Answer: B

174) 636,938 to the nearest ten thousand

A) 640,000 B) 700,000 C) 636,000 D) 630,000

Answer: A

175) 28,893 to the nearest ten thousand

A) 30,000 B) 28,900 C) 29,000 D) 28,000

Answer: A

176) 18,665,469 to the nearest million

A) 18,000,000 B) 18,665,000 C) 18,700,000 D) 19,000,000

Answer: D

177) 91,998 to the nearest ten

A) 91,990 B) 91,900 C) 91,000 D) 92,000

Answer: D

178) 557,495 to the nearest hundred

A) 557,400 B) 558,000 C) 557,000 D) 557,500

Answer: D

179) 777,499 to the nearest thousand

A) 777,400 B) 777,000 C) 777,500 D) 778,000

Answer: B

180) 998 to the nearest ten

A) 1,000 B) 1,090 C) 10,000 D) 990

Answer: A

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

181) 4429

A) Ten 4,430
Hundred 4,500
Thousand 4,000

B) Ten 4,420
Hundred 4,400
Thousand 4,000

C) Ten 4,420
Hundred 4,500
Thousand 5,000

D) Ten 4,430
Hundred 4,400
Thousand 4,000

Answer: D

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182) 3880

A)		B)		C)		D)	
Ten	3,880	Ten	3,890	Ten	3,880	Ten	3,890
Hundred	3,800	Hundred	3,800	Hundred	3,900	Hundred	3,900
Thousand	4,000	Thousand	3,000	Thousand	4,000	Thousand	4,000

Answer: C

183) 5382

A)		B)		C)		D)	
Ten	5,380	Ten	5,380	Ten	5,390	Ten	5,390
Hundred	5,400	Hundred	5,300	Hundred	5,400	Hundred	5,300
Thousand	5,000	Thousand	5,000	Thousand	5,000	Thousand	6,000

Answer: A

184) 4388

A)		B)		C)		D)	
Ten	4,390	Ten	4,390	Ten	4,380	Ten	4,380
Hundred	4,300	Hundred	4,400	Hundred	4,300	Hundred	4,400
Thousand	4,000	Thousand	4,000	Thousand	5,000	Thousand	4,000

Answer: B

185) 58,584

A)		B)		C)		D)	
Ten	58,580	Ten	58,590	Ten	58,590	Ten	58,580
Hundred	58,600	Hundred	58,600	Hundred	58,500	Hundred	58,590
Thousand	59,000	Thousand	60,000	Thousand	58,000	Thousand	58,000

Answer: A

186) 54,458

A)		B)		C)		D)	
Ten	54,460	Ten	54,450	Ten	54,460	Ten	54,450
Hundred	54,450	Hundred	54,500	Hundred	54,500	Hundred	54,400
Thousand	55,000	Thousand	54,470	Thousand	54,000	Thousand	55,000

Answer: C

Round the whole number to the given place.

187) In 2006, the number of students enrolled at a certain university was 17,671 . Round this number to the nearest thousand.

A) 17,700 B) 18,000 C) 20,000 D) 17,000

Answer: B

188) In 2005, a company spent $793,749,448 on advertising. Round the advertising figure to the nearest hundred- thousand.

A) 793,700,000 B) 700,000,000 C) 800,000,000 D) 793,800,000

Answer: A

189) A publishing company sold 18,268,591 books in 2000. Round the number of books sold to the nearest ten- million.

A) 18,270,000 B) 18,000,000 C) 20,000,000 D) 10,000,000

Answer: C

190) In 2005, the sales of a certain multinational corporation were $96,761,000,000. Round this amount to the nearest billion.

A) $97,000,000,000 B) $100,000,000,000 C) $96,800,000,000 D) $96,000,000,000

Answer: A

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191) In 2005, the population of a certain city was 87,653,560. Round this number to the nearest million.

A) 87,700,000 B) 88,000,000 C) 90,000,000 D) 87,000,000

Answer: B

192) In 2005, a company spent $593,749,623 on television advertising. Round this amount to the nearest hundred- million.

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

Answer: C

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

193)

46
69
48
38
+ 27

A) 228 B) 200 C) 240 D) 230

Answer: C

194)

72
- 26

A) 46 B) 40 C) 100 D) 50

Answer: B

195)

94
+ 53

A) 147 B) 100 C) 150 D) 140

Answer: D

196)

7,947
- 1,223

A) 6,700 B) 6,720 C) 6,724 D) 6,730

Answer: D

197)

523
- 98

A) 400 B) 425 C) 430 D) 420

Answer: D

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

198)

$$\begin{array}{r} 324 \\ 272 \\ 978 \\ 989 \\ +\ 576 \\ \hline \end{array}$$

A) 3,200 B) 3,139 C) 3,100 D) 3,140

Answer: A

199)

$$\begin{array}{r} 446 \\ -\ 166 \\ \hline \end{array}$$

A) 200 B) 600 C) 280 D) 300

Answer: A

200)

$$\begin{array}{r} 3{,}569 \\ +\ 3{,}151 \\ \hline \end{array}$$

A) 6,720 B) 6,800 C) 6,700 D) 7,000

Answer: B

201)

$$\begin{array}{r} 983 \\ 710 \\ 846 \\ 743 \\ +\ 474 \\ \hline \end{array}$$

A) 3,700 B) 3,760 C) 3,800 D) 3,756

Answer: A

202)

$$\begin{array}{r} 5{,}894 \\ 7{,}338 \\ +\ 3{,}538 \\ \hline \end{array}$$

A) 18,000 B) 16,800 C) 16,000 D) 16,700

Answer: D

203)

$$\begin{array}{r} 381 \\ -\ 243 \\ \hline \end{array}$$

A) 138 B) 200 C) 100 D) 600

Answer: B

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204)
9,473
- 1,133

A) 8,300 B) 8,000 C) 8,400 D) 8,340

Answer: C

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

205) 777 + 635 + 687 + 570 = 2,669

A) Incorrect. Estimate: 2,900 B) Incorrect. Estimate: 2,800

C) Incorrect. Estimate: 2,600 D) Correct. Estimate: 2,700

Answer: D

206) 671 + 347 + 185 + 786 = 1,889

A) Incorrect. Estimate: 2,200 B) Incorrect. Estimate: 1,900

C) Incorrect. Estimate: 2,100 D) Incorrect. Estimate: 2,000

Answer: D

Solve the problem by estimating.

207) Andy wants to buy a refrigerator for $699, a stove for $659, and a dishwasher for $249. Round each cost to the nearest hundred to estimate the total cost.

A) $1,600 B) $1,500 C) $1,400 D) $1,700

Answer: A

208) The Pan family took a trip and traveled 90, 265, 549, 839, 598, and 460 miles on 6 consecutive days. Round each distance to the nearest hundred to estimate the distance they traveled.

A) 2,700 miles B) 2,900 miles C) 3,000 miles D) 2,800 miles

Answer: D

209) Linda scored 92, 95, 80, 78, 94, and 100 on her calculus tests. Round each score to the nearest ten to estimate her total score.

A) 520 B) 530 C) 540 D) 550

Answer: C

210) Toni's car has 69,291 miles on the odometer, while Bill's car has 26,651 miles on the odometer. Round each mileage to the nearest thousand to estimate the differences in the mileages of the two cars.

A) 42,000 mi B) 42,600 mi C) 43,000 mi D) 42,700 mi

Answer: A

211) Enrollment figures at a community college showed an increase from 34,674 credit hours in 2005 to 62,475 credit hours in 2006. Round each number to the nearest thousand to estimate the increase.

A) 27,900 credit hours B) 27,000 credit hours C) 28,000 credit hours D) 27,800 credit hours

Answer: B

212) Nicole can buy a motorbike for $2,837 or a car for $5,461. Round each price to the nearest hundred to estimate the difference in the prices of the two vehicles.

A) $2,700 B) $2,624 C) $2,600 D) $3,000

Answer: A

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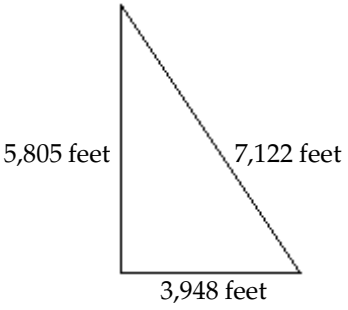
213) In 1999, the population of Capital City was 8,195,831 and the population of Spring City was 4,042,652.. Round each population to the nearest hundred- thousand to estimate the difference in the populations of the two cities.

A) 4,100,000 B) 4,200,000 C) 4,153,000 D) 4,300,000

Answer: B

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



A) 16,900 ft B) 11,459,100 ft C) 16,800 ft D) 8,400 ft

Answer: C

215) A number rounded to the nearest hundred is 3,700. Determine the largest possible number.

A) 3,750 B) 3,748 C) 3,749 D) 3,651

Answer: C

Multiply.

216) $96 \cdot 1$

A) 0 B) 961 C) 1 D) 96

Answer: D

217) $1 \cdot 55$

A) 0 B) 55 C) 1 D) 155

Answer: B

218) $37 \cdot 0$

A) 37 B) 370 C) 1 D) 0

Answer: D

219) $0 \cdot 58$

A) $\frac{1}{58}$ B) 58 C) 1 D) 0

Answer: D

220) $7 \cdot 3 \cdot 0$

A) 21 B) 0 C) 730 D) 10

Answer: B

221) $26 \cdot 0 \cdot 8$

A) 168 B) 208 C) 308 D) 0

Answer: D

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Use the distributive property to rewrite the expression.

222) $9(7 + 10)$

A) $9 \cdot 7 \cdot 10$ B) $9 \cdot 7 + 10$ C) $9 + 7 + 10$ D) $9 \cdot 7 + 9 \cdot 10$

Answer: D

223) $7(1 + 8)$

A) $7 + 1 + 8$ B) $7 \cdot 1 + 7 \cdot 8$ C) $7 \cdot 1 + 8$ D) $7 \cdot 1 \cdot 8$

Answer: B

224) $31(32 + 22)$

A) $31 \cdot 54$ B) $31 \cdot 32 + 31 \cdot 22$ C) $31 \cdot 32 + 22$ D) $31 + 32 + 22$

Answer: B

Multiply.

225)

$$\begin{array}{r} 56 \\ \times\ \ 4 \\ \hline \end{array}$$

A) 210 B) 324 C) 204 D) 224

Answer: D

226)

$$\begin{array}{r} 752 \\ \times\ \ 6 \\ \hline \end{array}$$

A) 4,412 B) 4,522 C) 4,512 D) 4,612

Answer: C

227) 961×5

A) 4,705 B) 4,905 C) 4,805 D) 4,815

Answer: C

228) $5{,}797 \times 7$

A) 40,589 B) 40,479 C) 40,579 D) 40,679

Answer: C

229)

$$\begin{array}{r} 4{,}028 \\ \times\ \ \ 2 \\ \hline \end{array}$$

A) 7,956 B) 8,056 C) 8,156 D) 8,066

Answer: B

230)

$$\begin{array}{r} 26{,}659 \\ \times\ \ \ \ 7 \\ \hline \end{array}$$

A) 186,713 B) 186,613 C) 186,603 D) 186,553

Answer: B

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231)
$$\begin{array}{r} 27 \\ \times\ 21 \\ \hline \end{array}$$

A) 557 B) 667 C) 567 D) 577

Answer: C

232)
$$\begin{array}{r} 236 \\ \times\ 12 \\ \hline \end{array}$$

A) 2,842 B) 2,832 C) 2,932 D) 2,822

Answer: B

233)
$$\begin{array}{r} 809 \\ \times\ 17 \\ \hline \end{array}$$

A) 1,513 B) 13,762 C) 13,753 D) 13,744

Answer: C

234)
$$\begin{array}{r} 159 \\ \times\ 366 \\ \hline \end{array}$$

A) 58,184 B) 58,194 C) 58,294 D) 58,204

Answer: B

235)
$$\begin{array}{r} 557 \\ \times\ 110 \\ \hline \end{array}$$

A) 61,270 B) 612,700 C) 6,127 D) 55,700

Answer: A

236)
$$\begin{array}{r} 8{,}541 \\ \times\ 286 \\ \hline \end{array}$$

A) 2,442,826 B) 2,442,726 C) 2,452,726 D) 2,441,726

Answer: B

237) (17)(489)(0)

A) 8,413 B) 8,303 C) 8,313 D) 0

Answer: D

238) (680)(20)

A) 13,596 B) 13,590 C) 13,600 D) 13,610

Answer: C

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239) (860)(1)(90)

A) 77,396 B) 77,390 C) 77,400 D) 77,410

Answer: C

240) 1,519 × 48

A) 18,228 B) 6,066 C) 60,768 D) 72,912

Answer: D

241) 654 × 284

A) 185,836 B) 185,746 C) 185,726 D) 185,736

Answer: D

242)

1,107
× 405

A) 447,228 B) 49,815 C) 9,963 D) 448,335

Answer: D

243)

1,644
× 1,206

A) 2,071,440 B) 1,982,664 C) 1,686,744 D) 1,653,864

Answer: B

Estimate the answer by rounding as indicated.

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

77 × 23

A) 1,600 B) 1,400 C) 5,600 D) 2,400

Answer: A

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

933 × 765

A) 713,745 B) 720,000 C) 713,700 D) 1,700

Answer: B

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

809 × 206

A) 1600 B) 16,000,000 C) 16,000 D) 160,000

Answer: D

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

106 × 599

A) 60,000 B) 600,000 C) 500,000 D) 50,000

Answer: A

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248) Estimate the product by rounding each factor to the nearest ten.
319 × 37
A) 360 B) 11,800 C) 11,803 D) 12,800
Answer: D

249) Estimate the product by rounding the first factor to the nearest hundred and the second factor to the nearest ten.
849 × 48
A) 40,000 B) 45,000 C) 36,000 D) 32,000
Answer: A

250) Estimate the product by rounding each factor to the nearest thousand.
9,461 × 6,704
A) 63,000,000 B) 63,426,500 C) 63,650,000 D) 63,427,000
Answer: A

Solve.

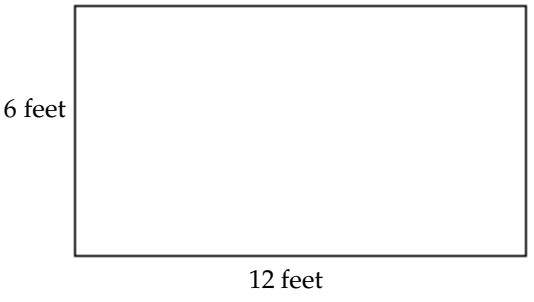
251) Find the product of 6 and 500.
A) 300 B) 1100 C) 3000 D) 30,000
Answer: C

252) Multiply 60 by 72.
A) 432 B) 4320 C) 4220 D) 422
Answer: B

253) Find 8 times 9,984.
A) 79,972 B) 79,872 C) 79,882 D) 79,772
Answer: B

Find the area of the rectangle.

254)



A) 36 sq ft B) 108 sq ft C) 72 sq ft D) 144 sq ft
Answer: C

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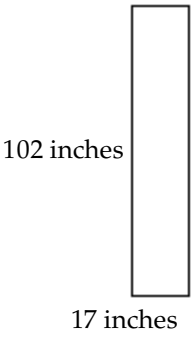
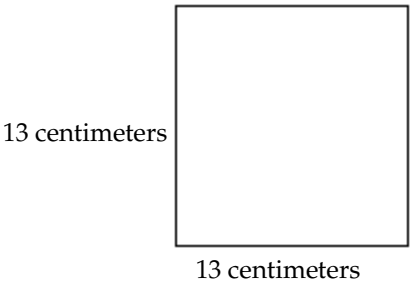
255)



A) 1,724 sq in. B) 119 sq in. C) 1,445 sq in. D) 1,734 sq in.

Answer: D

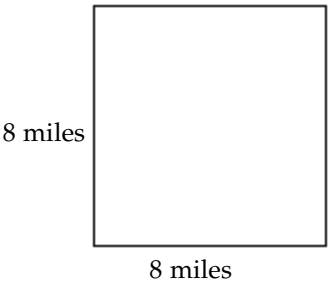
256)



A) 338 sq cm B) 164 sq cm C) 52 sq cm D) 169 sq cm

Answer: D

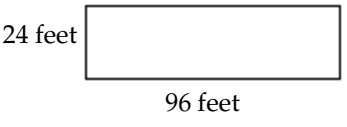
257)



A) 32 sq mi B) 67 sq mi C) 64 sq mi D) 60 sq mi

Answer: C

258)



A) 2,314 sq ft B) 240 sq ft C) 2,304 sq ft D) 2,294 sq ft

Answer: C

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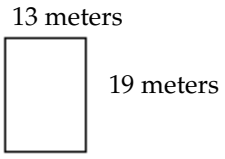
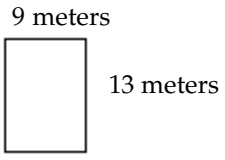
259)



A) 247 sq m B) 494 sq m C) 32 sq m D) 64 sq m

Answer: A

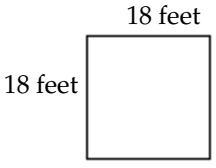
260)



A) 22 sq m B) 117 sq m C) 44 sq m D) 234 sq m

Answer: B

261)



A) 36 sq ft B) 324 sq ft C) 72 sq ft D) 648 sq ft

Answer: B

Solve.

262) The textbook for a history class costs $40. There are 32 students in the class. Find the total cost of the history books for the class.

A) $1,280 B) $1,248 C) $72 D) $1,240

Answer: A

263) The seats in the lecture hall are arranged in 20 rows with 6 seats in each row. Find how many seats are in this room.

A) 120 seats B) 130 seats C) 126 seats D) 114 seats

Answer: A

264) A case of candy bars has 4 layers of candy bars. In each layer are 4 rows with 15 candy bars in each row. Find how many candy bars are in a case.

A) 240 candy bars B) 239 candy bars C) 230 candy bars D) 250 candy bars

Answer: A

265) An apartment complex has 8 apartment buildings. Each building has 7 floors with 8 apartments per floor. Find how many apartments are in this complex.

A) 438 apartments B) 458 apartments C) 448 apartments D) 23 apartments

Answer: C

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266) A rectangular plot of land measure 80 feet by 120 feet. Find its area.
A) 9,600 sq ft B) 200 sq ft C) 960 sq ft D) 400 sq ft
Answer: A

267) The floor plan of a building is a rectangle which measures 320 meters by 80 meters. Find the floor area of the building.
A) 25,600 sq m B) 800 sq m C) 25,610 sq m D) 25,590 sq m
Answer: A

268) A mural on the wall of a building is a rectangle which measures 593 in. by 110 in. Find the area of the mural.
A) 652,300 sq in. B) 59,300 sq in. C) 6,523 sq in. D) 65,230 sq in.
Answer: D

269) 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 867 miles. Find the diameter of planet A.
A) 5,202 mi B) 5,102 mi C) 5,196 mi D) 5,192 mi
Answer: A

270) A company rents a mid- size car at $286 per month for twelve months. What is the cost for the car rental during this time?
A) $298 B) $3,381 C) $3,464 D) $3,432
Answer: D

271) There are 102 puppies in a room, with an assortment of black and white ears and paws. 19 have totally black ears and 2 white paws, 28 puppies have 1 black ear and 2 white paws, and 55 have no black ears and 1 white paw. How many black paws are in the room?
A) 259 B) 258 C) 152 D) 149
Answer: A

272) During the recent Homecoming football game, State U. scored the following: 3 six- point touchdowns, 3 extra points, 4 three- point field goals, and 1 two- point safety. What was State U.'s final score?
A) 12 points B) 21 points C) 35 points D) 20 points
Answer: C

273) A spreadsheet is a rectangular array containing 28 rows and 20 entries in each row. How many entries does the spreadsheet contain?
A) 15,680 entries B) 5600 entries C) 560 entries D) 532 entries
Answer: C

274) Mark's typing speed is 78 words per minute. How many words can he type in 20 minutes?
A) 1,560 words B) 1,460 words C) 1,570 words D) 98 words
Answer: A

275) One packet of peanuts has 24 grams of fat. How many grams of fat are in 9 packets of peanuts?
A) 207 g B) 216 g C) 225 g D) 226 g
Answer: B

276) One bag of Alice's favorite cookies contains 324 calories. How many calories are in 6 bags of cookies?
A) 2124 cal B) 1,920 cal C) 1,944 cal D) 1,800 cal
Answer: C

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277) Tickets for a bluegrass music festival cost $25 for an adult, $15for seniors, $14 for students, and $8 for children under 12. The bluegrass society in the town of Puddington is providing a bus to take a group to the festival. Use the following table to find the total cost of the tickets for this group. The first row has been filled in for you.

Person	Number of Persons	Cost per Person	Cost per Category
Adult	12	$25	$300
Senior	5	$15	
Student	25	$14	
Child under 12	5	$8	

A) $765 B) $753 C) $62 D) $770

Answer: A

278) Fill in the missing digits in the problem.

$$\begin{array}{r} 8_ \\ \times\ _7 \\ \hline 588 \\ \underline{2{,}520} \\ 3{,}108 \end{array}$$

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

Answer: C

Find the quotient.

279) $\frac{10}{2}$

A) 4 R 1 B) 5 C) 4 R 2 D) 6

Answer: B

280) $\frac{28}{7}$

A) 3 R 7 B) 3 R 6 C) 5 D) 4

Answer: D

281) $16 \div 4$

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

Answer: D

282) $14 \div 2$

A) 6 R 2 B) 8 C) 6 R 1 D) 7

Answer: D

283) $\frac{3}{0}$

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

Answer: D

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

A) 1 B) 8 C) 0 D) undefined

Answer: C

285) $2 \div 1$

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

Answer: A

286) $23 \div 1$

A) $\frac{1}{23}$ B) 1 C) 23 D) undefined

Answer: C

287) $45 \div 0$

A) 0 B) $\frac{1}{45}$ C) 45 D) undefined

Answer: D

288) $16 \div 16$

A) 1 B) 16 C) 0 D) undefined

Answer: A

289) $0 \div 45$

A) 45 B) 1 C) 0 D) undefined

Answer: C

Divide.

290) $3\overline{)15}$

A) 4 R 2 B) 6 C) 5 D) 4 R 3

Answer: C

291) $4\overline{)20}$

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

Answer: D

292) $7\overline{)420}$

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

Answer: C

293) $4\overline{)544}$

A) 138 B) 139 C) 134 D) 136

Answer: D

294) $6\overline{)6{,}414}$

A) 1,067 B) 1,067 R 1 C) 1,069 D) 1,069 R 5

Answer: C

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295) $42\overline{)756}$

A) 18 R 34 B) 19 R 32 C) 19 R 5 D) 18

Answer: D

296) $6{,}480 \div 36$

A) 180 R 27 B) 181 R 26 C) 180 D) 181

Answer: C

297) $30\overline{)69{,}630}$

A) 2,326 R 16 B) 2,331 R 24 C) 2,321 D) 2,311

Answer: C

298) $\frac{80{,}100}{45}$

A) 1,770 B) 1,790 R 32 C) 1,780 D) 1,785 R 24

Answer: C

299) $127 \div 7$

A) 18 R 6 B) 19 C) 18 D) 18 R 1

Answer: D

300) $4{,}442 \div 5$

A) 888 R 4 B) 890 C) 888 R 2 D) 888

Answer: C

301) $6\overline{)1{,}665}$

A) 277 R 3 B) 277 R 2 C) 276 R 9 D) 277

Answer: A

302) $4{,}641 \div 6$

A) 772 R 9 B) 773 R 2 C) 773 D) 773 R 3

Answer: D

303) $92 \div 18$

A) 5 R 3 B) 4 R 4 C) 6 R 2 D) 5 R 2

Answer: D

304) $844 \div 11$

A) 76 R 8 B) 75 R 2 C) 76 D) 74 R 7

Answer: A

305) $9{,}666 \div 54$

A) 180 B) 180 R 44 C) 179 D) 179 R 45

Answer: C

306) $42\overline{)40{,}236}$

A) 963 R 4 B) 968 R 12 C) 958 D) 948

Answer: C

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307) $\frac{58,926}{61}$

A) 971 R 30 B) 976 R 38 C) 966 D) 956

Answer: C

308) 6,719 ÷ 14

A) 479 R 11 B) 479 R 13 C) 13 D) 479

Answer: B

309) $\frac{5,270}{155}$

A) 34 R 5 B) 32 C) 34 D) 32 R 27

Answer: C

310) $\frac{33,726}{219}$

A) 1,540 B) 164 C) 147 D) 154

Answer: D

311) 1,589 ÷ 15

A) 105 R 14 B) 108 R 7 C) 105 D) 108 R 5

Answer: A

312) 591,429 ÷ 800

A) 739 R 199 B) 229 C) 739 D) 739 R 229

Answer: D

313) 234,163 ÷ 370

A) 632 B) 323 C) 632 R 323 D) 632 R 273

Answer: C

314) $336\overline{)152,208}$

A) 454 B) 4,530 C) 453 D) 452

Answer: C

315) 98,506 ÷ 346

A) 284 R 142 B) 284 R 243 C) 289 R 308 D) 284 R 242

Answer: D

316) $963\overline{)131,864}$

A) 136 R 885 B) 136 R 896 C) 136 D) 896

Answer: B

Solve.

317) Find the quotient of 185 and 7.

A) 26 R 3 B) 29 C) 26 D) 26 R 6

Answer: A

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318) Find 215 divided by 7.
A) 35 B) 30 R 6 C) 30 D) 30 R 5
Answer: D

319) Find the quotient of 939 and 59.
A) 13 R 7 B) 15 C) 14 R 50 D) 15 R 54
Answer: D

320) Amy teaches Chinese lessons for $35 per student for a 6- week session. From one group of students, she collects $1,085. Find how many students are in the group.
A) 33 students B) 31 students C) 35 students D) 21 students
Answer: B

321) One ticket won a prize of $9,425,000. The winning ticket was purchased by 29 people who had pooled their money. Find how many dollars each person receives if they each receive an equal share.
A) $32,500 B) $324,000 C) $325,000 D) $32,600
Answer: C

322) In a distant galaxy the gravity of planet A is 219 times as strong as the gravity of planet B, so objects on planet A weigh 219 times as much as they weigh on planet B. If the object weighs 35,478 pounds on planet A, how much does it weigh on plant B?
A) 1,620 lb B) 155 lb C) 162 lb D) 172 lb
Answer: C

323) Ms. Losch has a piece of rope 207 feet long that she cuts into pieces for an experiment in her first- grade class. Each piece of rope is to be 7 feet long. How many 7 foot long pieces of rope can she cut from the original piece of rope?
A) 33 pieces of rope B) 4 pieces of rope C) 30 pieces of rope D) 29 pieces of rope
Answer: D

324) A dairy produces 710,000 quarts of milk each day. There are 4 quarts in a gallon. How many gallons of milk are produced each day?
A) 2,840,000 gal B) 1,775,000 gal C) 177,500 gal D) 17,750 gal
Answer: C

325) Jim and Tammi ran a distance of 21,120 feet. A mile is 5280 ft. How many miles did they run?
A) 8 mi B) 4 mi 2640 ft C) 5 mi D) 4 mi
Answer: D

326) There is a bridge over a certain highway every 7 miles. The first bridge is at the beginning of a 159- mile stretch of highway. Find how many bridges there are over 159 miles of the highway.
A) 23 bridges B) 22 bridges C) 27 bridges D) 25 bridges
Answer: A

327) Charles wishes to pay off a car loan of $6,948 in 36 months. How large will his monthly payment be?
A) $193 B) $187 C) $2,316 D) $190
Answer: A

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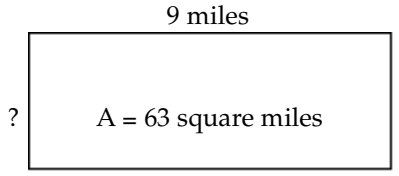
328) 196 chocolates are to be packed into boxes each of which will contain 8 chocolates. How many boxes of chocolates will there be? How many chocolates will be left over?

A) 23 boxes; 5 chocolates left over
B) 24 boxes; 4 chocolates left over
C) 24 boxes; no chocolates left over
D) 23 boxes; 4 chocolates left over

Answer: B

329) If the area of a rectangle is 63 square miles and its length is 9 miles, what is its width?



A) $\frac{81}{7}$ mi
B) 567 mi
C) 7 mi
D) 9 mi

Answer: C

Find the average of the list of numbers.

330) 49, 35, 18, 13, 42, 17

A) 35
B) 27
C) 30
D) 29

Answer: D

331) 16, 20, 17, 21, 48, 15, 17

A) 32
B) 21
C) 22
D) 17

Answer: C

332) 422, 848, 813, 869

A) 788
B) 738
C) 638
D) 762

Answer: B

333) 210, 169, 191, 198, 207

A) 205
B) 195
C) 194
D) 198

Answer: B

334) 49, 43, 35, 39, 49

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

Answer: A

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Solve the problem.

335) The following table shows the amount of income tax paid in 2005 by four people selected at random from a certain town.

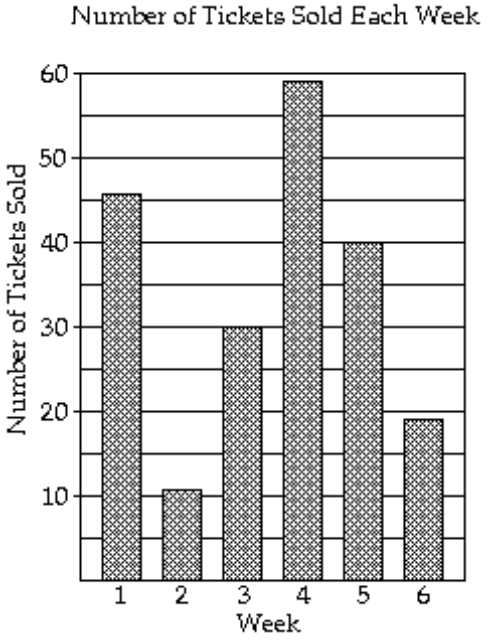
Bill	$825
Jill	$6,500
Sue	$2,600
John	$5,575

Find the average amount of income tax paid in 2005 by the two women.

A) $9,100 B) $4,550 C) $3,200.00 D) $3,875.00

Answer: B

336) The bar graph shows the number of tickets sold each week by the garden club for their annual flower show. What was the average number of tickets sold during weeks 3, 4, and 5?



A) 43 B) 129 C) 42 D) 44

Answer: A

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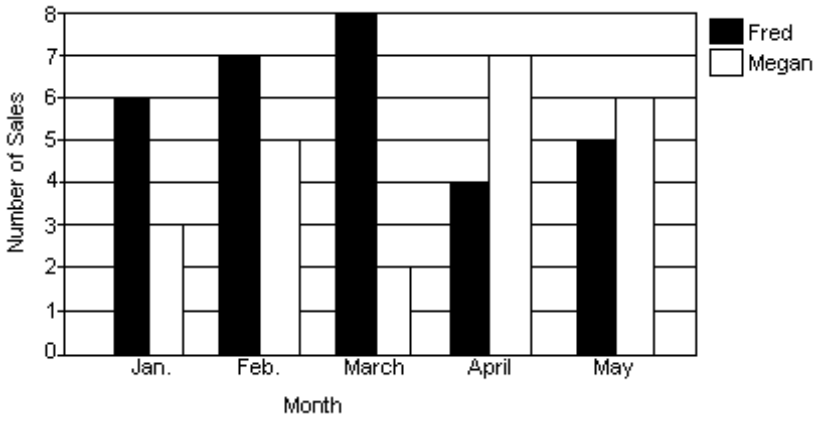
337) The double- bar graph below shows the number of sales made by Fred and Megan from January through May. Find the average number of sales made by Fred for the 5- month period.



A) 4 B) 5 C) 6 D) 8

Answer: C

Write using exponential notation.

338) $3 \cdot 3$

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

Answer: A

339) $6 \cdot 6 \cdot 6$

A) 3^6 B) $3 \cdot 6$ C) 6^1 D) 6^3

Answer: D

340) $7 \cdot 7 \cdot 7 \cdot 7$

A) 7^2 B) 7^4 C) 28 D) 4^7

Answer: B

341) $3 \cdot 3 \cdot 3 \cdot 3 \cdot 3$

A) 3^0 B) 3^5 C) $5 \cdot 3$ D) 5^3

Answer: B

342) $10 \cdot 10 \cdot 10 \cdot 10$

A) $4 \cdot 10$ B) 10^1 C) 10^4 D) 4^{10}

Answer: C

343) $20 \cdot 20 \cdot 20 \cdot 20 \cdot 20$

A) 20^5 B) $5 \cdot 20$ C) 5^{20} D) $5 \cdot 5^{20}$

Answer: A

344) $4 \cdot 4 \cdot 5 \cdot 5 \cdot 5 \cdot 5$

A) $4 \cdot 5^6$ B) 20^6 C) $2^4 \cdot 4^5$ D) $4^2 \cdot 5^4$

Answer: D

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345) $4 \cdot 6 \cdot 6 \cdot 6 \cdot 6 \cdot 6$

A) $(4 \cdot 6)^5$ B) 24^5 C) $1^4 \cdot 5^6$ D) $4 \cdot 6^5$

Answer: D

346) $2 \cdot 2 \cdot 3 \cdot 3 \cdot 3 \cdot 3 \cdot 5$

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

Answer: D

347) $7 \cdot 7 \cdot 7 \cdot 6 \cdot 6 \cdot 6 \cdot 6 \cdot 6 \cdot 6 \cdot 9$

A) $3^7 \cdot 6^6 \cdot 1^9$ B) $7^3 \cdot 6^6 \cdot 9$ C) $(7 \cdot 6 \cdot 9)^{10}$ D) $7 \cdot 6 \cdot 9^{10}$

Answer: B

Evaluate.

348) 7^2

A) 49 B) 64 C) 128 D) 14

Answer: A

349) 17^2

A) 290 B) 34 C) 35 D) 289

Answer: D

350) 1^7

A) 17 B) 1 C) 7 D) undefined

Answer: B

351) 11^1

A) 111 B) 11 C) 1 D) undefined

Answer: B

352) 4^3

A) 12 B) 65 C) 64 D) 13

Answer: C

353) 12^3

A) 36 B) 1,331 C) 531,441 D) 1,728

Answer: D

354) 2^7

A) 256 B) 14 C) 49 D) 128

Answer: D

355) 8^4

A) 512 B) 32 C) 4,096 D) 65,536

Answer: C

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356) 10^5

A) 100,000 B) 50 C) 1,000,000 D) 9,765,625

Answer: A

357) $3 \cdot 4^3$

A) 36 B) 192 C) 67 D) 1,728

Answer: B

358) $5 \cdot 3^5$

A) 75 B) 625 C) 759,375 D) 1,215

Answer: D

Simplify.

359) $4 \cdot 4 - 5$

A) 21 B) 4 C) 11 D) 80

Answer: C

360) $34 + 3 \cdot 8$

A) 58 B) 374 C) 296 D) 10

Answer: A

361) $32 - 9 \cdot 2$

A) 50 B) 14 C) 224 D) 46

Answer: B

362) $240 \div 8 - 2$

A) 234 B) 28 C) 230 D) 40

Answer: B

363) $\frac{240}{8} - 4$

A) 236 B) 228 C) 26 D) 60

Answer: C

364) $2 \cdot 7 + 4 \cdot 19$

A) 342 B) 90 C) 166 D) 418

Answer: B

365) $28 + 4 \cdot 9 - 19$

A) 45 B) 0 C) 269 D) 22

Answer: A

366) $8 + 16 \div 4 \cdot 2 - 5$

A) 7 B) 11 C) 27 D) 21

Answer: B

367) $0 \div 3 + 7 \cdot 2$

A) 14 B) 17 C) 20 D) undefined

Answer: A

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368) $8^2 - 3 \cdot 3$

A) 120 B) 75 C) 183 D) 55

Answer: D

369) $48 \div 0 + 3$

A) 51 B) 3 C) 16 D) undefined

Answer: D

370) $9^2 \div 9 \times 8 + 1$

A) 63 B) 71 C) 72 D) 73

Answer: D

371) $(6 + 3) \cdot (13 - 5)$

A) 40 B) 30 C) 51 D) 72

Answer: D

372) $\dfrac{8 + 24 \div 2}{2^2}$

A) 14 B) 11 C) 5 D) 4

Answer: C

373) $(80 + 4^2) \div 2 \cdot 2^2$

A) 12 B) 112 C) 82 D) 192

Answer: D

374) $[124 - (12 - 6)] - 3^3$

A) 145 B) 91 C) 79 D) 109

Answer: B

375) $16 - (8 \div 2) + 2 \cdot 4^2$

A) 36 B) 224 C) 96 D) 44

Answer: D

376) $(4 + 7) \cdot 5 + [49 \div (7 \div 7)]$

A) 104 B) 56 C) 40 D) 88

Answer: A

377) $36 \div [2^2 + (41 - 6) - 3^3] + 3 \cdot 2$

A) 42 B) 78 C) 12 D) 9

Answer: D

378) $\dfrac{3^2 - 2^3 + 23}{12 \div 3 \cdot 2 \cdot 1 \div 2}$

A) 12 B) 6 C) 23 D) 24

Answer: B

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379) $[38 - (4 + 6) \div 2] - [1 + 6 \div 3]$

A) 27 B) 25 C) 30 D) 37

Answer: C

380) $(3 + 7)[7 + (6 + 8)]$

A) 441 B) 108 C) 1,155 D) 210

Answer: D

381) $5 \cdot [4^2 + 8 \cdot (7 + 8)]$

A) 680 B) 1,800 C) 400 D) 140

Answer: A

382) $3[3 + 2(5^2)]$

A) 1,521 B) 309 C) 507 D) 159

Answer: D

383) $\dfrac{193 + 7}{3^2 - 4}$

A) 100 B) 40 C) 38 D) 60

Answer: B

384) $\dfrac{30(9 - 6) - 18}{3^2 - 3}$

A) 24 B) 16 C) 15 D) 12

Answer: D

385) $25 - [7 + (11 - 3)] - (5 - 3)^3$

A) 18 B) 34 C) 16 D) 2

Answer: D

386) $3 \cdot (4 + 5)^2 - 4 \cdot (6 - 3)^2$

A) 207 B) 585 C) 253 D) 2,151

Answer: A

387) $350 - 2^4 \cdot 24 \div (4 \cdot 3 - 2 \cdot 2)$

A) 302 B) 664 C) 1,002 D) 314

Answer: A

388) $\{[57 - 2 \cdot 2] - [84 \div (1 + 2)]\} \cdot 7$

A) 175 B) 161 C) 252 D) 217

Answer: A

389) $2[(6 - 3)^2 + (20 - 18)^2] + 10$

A) 16 B) 2 C) 36 D) 46

Answer: C

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390) $(65 - 10) \cdot [(80 + 10 \div 5) - (6 \cdot 6 - 1 \cdot 1)]$

A) 2,642 B) 2,685 C) 2,585 D) 2,549

Answer: C

391) $4 \cdot \{(300 - 50 \div 5) - [3 \cdot 17 - (8 - 2 \cdot 3)]\}$

A) 964 B) - 536 C) 2,740 D) 914

Answer: A

Insert parentheses in order to make the statement true.

392) $3 \cdot 7 - 3 = 12$

A) $(3 \cdot 7) - 3 = 12$ B) $(3)(7)(-3) = 12$ C) $3 \cdot (7 - 3) = 12$ D) $3 \cdot 7 (-3) = 12$

Answer: C

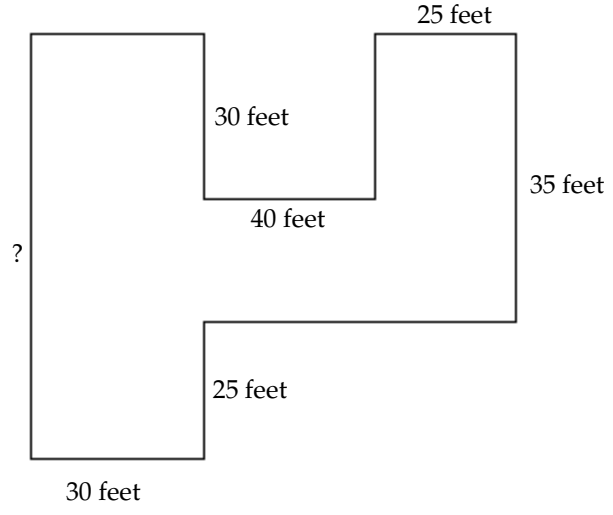
393) $3 + 2 \cdot 7 - 3 = 20$

A) $(3 + 2) \cdot 7 - 3 = 20$ B) $3 + 2 \cdot (7 - 3) = 20$ C) $3 + (2 \cdot 7) - 3 = 20$ D) $(3 + 2) \cdot (7 - 3) = 20$

Answer: D

Solve.

394) Eight 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 eight pools to get a cost estimate. Find the total perimeter.

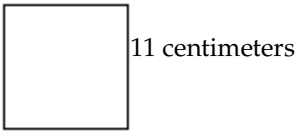


A) 3,330 ft B) 2,250 ft C) 375 ft D) 370 ft

Answer: A

Find the area of the square.

395)



A) 44 sq cm B) 116 sq cm C) 242 sq cm D) 121 sq cm

Answer: D

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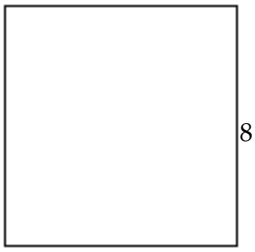
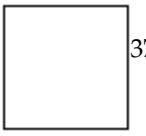
396)



A) 60 sq mi B) 67 sq mi C) 32 sq mi D) 64 sq mi

Answer: D

397)



A) 2,738 sq m B) 148 sq m C) 74 sq m D) 1,369 sq m

Answer: D

Evaluate the expression for the given replacement values.

398) $x + y$ for $x = 51, y = 32$

A) 65 B) 38 C) 74 D) 83

Answer: D

399) $x \div y$ for $x = 495, y = 9$

A) 55 B) 53 C) 58 D) 57

Answer: A

400) $x \div y$ for $x = 348, y = 0$

A) $\frac{1}{348}$ B) 0 C) 348 D) undefined

Answer: D

401) $x \cdot y$ for $x = 2, y = 89$

A) 178 B) 171 C) 168 D) 278

Answer: A

402) $x - y + z$ for $x = 22, y = 7, z = 2$

A) 17 B) 31 C) 13 D) 18

Answer: A

403) $x - 6yz$ for $x = 76, y = 2, z = 3$

A) 420 B) 65 C) 192 D) 40

Answer: D

404) $x - (y + z)$ for $x = 24, y = 6, z = 1$

A) 17 B) 20 C) 19 D) 31

Answer: A

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405) $19 - (y - z)$ for $y = 6, z = 1$

A) 12 B) 14 C) 26 D) 15

Answer: B

406) $8x + 6$ for $x = 3$

A) 14 B) 30 C) 48 D) 18

Answer: B

407) $5x + 2y$ for $x = 4$ and $y = 7$

A) 7 B) 34 C) 22 D) 19

Answer: B

408) $6x - 5y$ for $x = 4$ and $y = 4$

A) 44 B) 4 C) 20 D) 19

Answer: B

409) $x^2 - 4y$ for $x = 8, y = 2$

A) 8 B) 72 C) 24 D) 56

Answer: D

410) $8x^2 + 4x$ for $x = 4$

A) 80 B) 144 C) 112 D) 48

Answer: B

411) $\frac{9x}{y}$ for $x = 72, y = 9$

A) 81 B) 567 C) 576 D) 72

Answer: D

412) $\frac{x + y}{7}$ for $x = 42, y = 56$

A) 14 B) 50 C) 62 D) 98

Answer: A

413) $\frac{14x + 2y}{4}$ for $x = 6, y = 10$

A) 26 B) 38 C) - 16 D) 104

Answer: A

414) $\frac{7x}{4} + \frac{2y}{4}$ for $x = 24, y = 32$

A) 50 B) 58 C) 44 D) 106

Answer: B

415) $\frac{x}{2} + \frac{y}{2}$ for $x = 12, y = 16$

A) 14 B) 20 C) 22 D) 28

Answer: A

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416) $(x + 4y)^2$ for x = 4, y = 4

A) 400 B) 40 C) 63 D) 20

Answer: A

417) $4x^2 + 5y$ for x = 2, y = 9

A) 61 B) 334 C) 109 D) 324

Answer: A

418) $4xy^2 - 6$ for x = 2, y = 5

A) 194 B) 394 C) 1,594 D) 74

Answer: A

419) 4y(3z - x) for x = 8, y = 4, z = 5

A) 144 B) 28 C) 112 D) 232

Answer: C

420) $\frac{24xy}{z}$ for x = 8, y = 4, z = 6

A) 762 B) 128 C) 768 D) 32

Answer: B

421) $\frac{20x - 15}{y}$ for x = 6, y = 5

A) 12 B) 21 C) 9 D) 117

Answer: B

422) $x^4 - (y - z)$ for x = 3, y = 4, z = 2

A) 75 B) 79 C) 10 D) 6

Answer: B

423) $(7x - yz)^3$ for x = 2, y = 4, z = 3

A) 27,000 B) 270 C) 6 D) 8

Answer: D

Solve the problem.

424) The expression $\frac{9C}{5} + 32$ gives the equivalent degrees Fahrenheit for C degrees Celsius. Evaluate this expression when C = 65 to find the equivalent temperature in degrees Fahrenheit.

A) 149 B) 148 C) 162 D) 136

Answer: A

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

425) Is 1 a solution of p + 12 = 13?

A) yes B) no

Answer: A

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426) Is 4 a solution of p - 1 = 3 ?
A) yes B) no
Answer: A

427) Is 4 a solution of 5m + 2 = 24 ?
A) yes B) no
Answer: B

428) Is 22 a solution of 4n = 84?
A) yes B) no
Answer: B

429) Is 4 a solution of 2x - 7 = 1?
A) yes B) no
Answer: A

430) Is 7 a solution of 6x - 4 = 73 - 5x?
A) yes B) no
Answer: A

431) Is 2 a solution of 5(r + 5) = 15?
A) yes B) no
Answer: B

Determine which numbers in the set are solutions to the equation.

432) x + 2 = 9; {6, 7, 8}
A) 8 B) 7 C) 6 D) none of them
Answer: B

433) 43 - n = 35 ; {7, 8, 9}
A) 7 B) 9 C) 8 D) none of them
Answer: C

434) 10x = 70; {7, 8, 700}
A) 8 B) 7 C) 700 D) none of them
Answer: B

435) 4 + (y + 3) = 14; {7, 8, 9}
A) 7 B) 9 C) 7 and 9 D) 8
Answer: A

436) 9n + n = 20; {2, 3, 200}
A) 2 B) 2 and 3 C) 3 D) 200
Answer: A

437) 5r + 6 = 51; {4, 9, 40}
A) 40 B) 9 C) 4 D) none of them
Answer: B

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438) $6n - 3 = 15$; $\{3, 5, 16\}$

A) 16 B) 5 C) 3 D) none of them

Answer: C

Write the phrase as a variable expression. Use x to represent "a number."

439) The total of 15 and a number

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

Answer: B

440) The sum of a number and 76

A) 76 B) $x + 76$ C) 76x D) $x - 76$

Answer: B

441) 7 times a number

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

Answer: D

442) 149 less a number

A) $x + 149$ B) $\frac{149}{x}$ C) $x - 149$ D) $149 - x$

Answer: D

443) The product of 9 and a number

A) $\frac{9}{x}$ B) $9 - x$ C) $9 + x$ D) 9x

Answer: D

444) 65 subtracted from a number

A) 65 B) 65x C) $65 - x$ D) $x - 65$

Answer: D

445) The difference of a number and 49

A) $x - 49$ B) 49x C) $49 - x$ D) 49

Answer: A

446) 75 decreased by a number

A) $75 - x$ B) $75 + x$ C) $\frac{75}{x}$ D) $x - 75$

Answer: A

447) A number divided by 46

A) 46x B) $\frac{46}{x}$ C) $x - 46$ D) $\frac{x}{46}$

Answer: D

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448) The quotient of 55 and a number

A) $55 - x$ B) $x - 55$ C) $\frac{x}{55}$ D) $\frac{55}{x}$

Answer: D

449) 5 decreased by 3 times a number

A) $5 - 3x$ B) $5x - 3$ C) $3x - 5$ D) $3 - 5x$

Answer: A

450) 6 less than 9 times a number

A) $6 - 9x$ B) $9x - 6$ C) $6x - 9$ D) $9 - 6x$

Answer: B

451) 7 more than 9 times a number

A) $16x$ B) $9(7 + x)$ C) $9x + 7$ D) $7x + 9$

Answer: C

452) The quotient of a number and 5, decreased by 3

A) $\frac{x - 3}{5}$ B) $\frac{5}{x} - 3$ C) $\frac{5}{x - 3}$ D) $\frac{x}{5} - 3$

Answer: D

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

difference	**factor**	**perimeter**	**dividend**	**minuend**	
place value	**whole numbers**	**equation**	**divisor**	**variable**	
sum	**set**	**addend**	**exponent**	**expression**	
solution	**quotient**	**subtrahend**	**product**	**digits**	**area**

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

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

Answer: D

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

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

Answer: D

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

A) digits B) place value C) factor D) divisor

Answer: B

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

A) area B) equation C) expression D) exponent

Answer: D

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

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

Answer: C

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

A) digits B) difference C) divisor D) dividend

Answer: A

459) A letter used to represent a number is called a(n) _____.

A) variable B) addend C) place value D) solution

Answer: A

460) A(n) _____ can be written in the form "expression = expression."

A) exponent B) equation C) area D) addend

Answer: B

461) A combination of operations on variables and numbers is called a(n) _____.

A) expression B) addend C) exponent D) equation

Answer: A

462) A(n) _____ of an equation is a value of the variable that makes the equation a true statement.

A) solution B) expression C) sum D) set

Answer: A

463) A collection of numbers (or objects) enclosed by braces is called a(n) _____.

A) set B) subtrahend C) solution D) quotient

Answer: A

464) Use the facts below.

$2 \cdot 3 = 6$ $4 + 17 = 21$ $20 - 9 = 11$ $5\overline{)35}$

The 21 above is called the _____.

A) quotient B) sum C) product D) addend

Answer: B

465) Use the facts below.

$2 \cdot 3 = 6$ $4 + 17 = 21$ $20 - 9 = 11$ $5\overline{)35}$

The 5 above is called the _____.

A) divisor B) dividend C) factor D) quotient

Answer: A

466) Use the facts below.

$2 \cdot 3 = 6$ $4 + 17 = 21$ $20 - 9 = 11$ $5\overline{)35}$

The 35 above is called the _____.

A) quotient B) minuend C) dividend D) divisor

Answer: C

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467) Use the facts below.

$2 \cdot 3 = 6$ $4 + 17 = 21$ $20 - 9 = 11$ $5\overline{)35}$ 7

The 7 above is called the _____.

A) dividend B) subtrahend C) quotient D) divisor

Answer: C

468) Use the facts below.

$2 \cdot 3 = 6$ $4 + 17 = 21$ $20 - 9 = 11$ $5\overline{)35}$ 7

The 3 above is called a(n) _____.

A) dividend B) divisor C) factor D) addend

Answer: C

469) Use the facts below.

$2 \cdot 3 = 6$ $4 + 17 = 21$ $20 - 9 = 11$ $5\overline{)35}$ 7

The 6 above is called the _____.

A) sum B) factor C) dividend D) product

Answer: D

470) Use the facts below.

$2 \cdot 3 = 6$ $4 + 17 = 21$ $20 - 9 = 11$ $5\overline{)35}$ 7

The 20 above is called the _____.

A) minuend B) dividend C) difference D) subtrahend

Answer: A

471) Use the facts below.

$2 \cdot 3 = 6$ $4 + 17 = 21$ $20 - 9 = 11$ $5\overline{)35}$ 7

The 9 above is called the _____.

A) minuend B) difference C) subtrahend D) addend

Answer: C

472) Use the facts below.

$2 \cdot 3 = 6$ $4 + 17 = 21$ $20 - 9 = 11$ $5\overline{)35}$ 7

The 11 above is called the _____.

A) difference B) subtrahend C) minuend D) quotient

Answer: A

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473) Use the facts below.

$2 \cdot 3 = 6$ $\quad 4 + 17 = 21$ $\quad 20 - 9 = 11$ $\quad 5\overline{)35}$ $\quad$ (quotient: 7)

The 4 above is called a(n) _____.

A) factor B) addend C) sum D) subtrahend

Answer: B

Provide an appropriate response.

474) Write 75,993 in words.

A) seven thousand, nine hundred ninety- three
B) seventy- five thousand, ninety- nine hundred, three
C) seventy- five thousand, nine hundred ninety- three
D) seventy thousand, nine hundred ninety- three

Answer: C

475) Write "three hundred seven thousand, four hundred ninety- six" in standard form.

A) 307,496 B) 370,496 C) 3,007,496 D) 37,496

Answer: A

Simplify.

476) $36 + 27$

A) 64 B) 62 C) 53 D) 63

Answer: D

477) $401 - 235$

A) 166 B) 167 C) 276 D) 176

Answer: A

478)

$$\begin{array}{r} 431 \\ \times\ 50 \\ \hline \end{array}$$

A) 31,550 B) 22,550 C) 21,550 D) 20,550

Answer: C

479) $38{,}614 \div 47$

A) 821 R 27 B) 821 R 25 C) 821 D) 27

Answer: A

480) $2^3 \cdot 5^2$

A) 384 B) 128 C) 200 D) 256

Answer: C

481) $20 \div 1$

A) 0 B) undefined C) 20 D) 1

Answer: C

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482) $0 \div 88$

A) 1 B) 0 C) undefined D) 88

Answer: B

483) $25 \div 0$

A) 1 B) 0 C) 25 D) undefined

Answer: D

484) $(7^2 - 3) \cdot 4$

A) 184 B) 112 C) 37 D) 64

Answer: A

485) $12 + 9 \div 3 \cdot 2 - 4$

A) 22 B) 10 C) 14 D) 32

Answer: C

486) $3^1 \cdot 4^3$

A) 1,728 B) 192 C) 67 D) 36

Answer: B

487) $3[(5 - 3)^2 + (20 - 17)^2] + 13$

A) 26 B) 52 C) 78 D) 3

Answer: B

488) $6{,}117 \cdot 100$

A) 6,117,100 B) 611,710 C) 6,117,000 D) 611,700

Answer: D

Provide an appropriate response.

489) Find the average of 48, 42, 34, 38, and 48.

A) 48 B) 42 C) 41 D) 34

Answer: B

490) Round 97,763 to the nearest thousand.

A) 97,800 B) 97,700 C) 97,000 D) 98,000

Answer: D

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

491) $5{,}304 + 7{,}322 + 3{,}829$

A) 16,000 B) 18,000 C) 16,400 D) 16,500

Answer: C

492) $9{,}361 - 1{,}933$

A) 7,500 B) 7,428 C) 7,400 D) 7,000

Answer: A

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Solve.

493) Subtract 68 from 814.

A) 738 B) 646 C) 746 D) 882

Answer: C

494) Find the sum of 32 and 207.

A) 239 B) 6,624 C) 175 D) 478

Answer: A

495) Find the product of 18 and 407.

A) 7,333 B) 846 C) 7,319 D) 7,326

Answer: D

496) Find the quotient of 66 and 16.

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

Answer: D

497) Amy teaches Chinese lessons for $75 per student for a 6- week session. From one group of students, she collects $2,025. How many students are in the group?

A) 29 students B) 31 students C) 17 students D) 27 students

Answer: D

498) Last year, Lu Yi's tax refund was $462. This year it was $828. How much more was this year's refund than last year's refund?

A) $266 B) $362 C) $366 D) $1,290

Answer: C

499) The seats in a lecture hall are arranged in 15 rows with 6 seats in each row. How many seats are in this lecture hall?

A) 90 seats B) 84 seats C) 100 seats D) 96 seats

Answer: A

500) In preparation for his new job, Luke bought two suits at $164 a piece, six shirts at $27 a piece, two pairs of shoes at $66 a piece, and four ties at $28 a piece. What was the total cost of these items?

A) $786 B) $734 C) $291 D) $764

Answer: B

Find the perimeter and the area of the figure.

501)

10 yards

A) perimeter: 100 yd; area: 40 sq yd B) perimeter: 40 yd; area: 400 sq yd

C) perimeter: 20 yd; area: 100 sq yd D) perimeter: 40 yd; area: 100 sq yd

Answer: D

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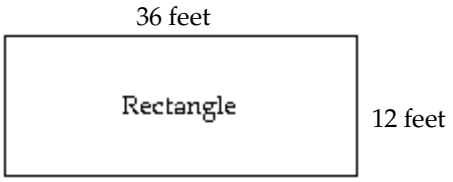
502)



A) perimeter: 96 ft; area: 432 sq ft
B) perimeter: 96 ft; area: 864 sq ft
C) perimeter: 48 ft; area: 432 sq ft
D) perimeter: 432 ft; area: 96 sq ft

Answer: A

Provide an appropriate response.

503) Evaluate $2 + (x^3 - 8)$ for $x = 4$.

A) 10 B) 58 C) 70 D) 54

Answer: B

504) Evaluate $\frac{12x + 6y}{6}$ for $x = 2$ and $y = 10$.

A) 6 B) 14 C) 84 D) 22

Answer: B

Translate the phrase into a mathematical expression. Use x to represent "a number".

505) The quotient of a number and 3

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

Answer: D

506) 7 times a number, decreased by 6

A) $6 - 7x$ B) $6x - 7$ C) $7 - 6x$ D) $7x - 6$

Answer: D

Provide an appropriate response.

507) Is 3 a solution of the equation $10x - 2 = 28$?

A) yes B) no

Answer: A

508) Determine which number in the set is a solution to the given equation.

$8x - 6 = 20 - 5x; \{0, 2, 10\}$

A) none of them B) 0 C) 2 D) 10

Answer: C

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

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

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

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151) C
152) B
153) D
154) A
155) D
156) C
157) A
158) D
159) D
160) D
161) D
162) A
163) D
164) C
165)
$$\begin{array}{r} 14,221 \\ -\ 7090 \\ \hline 7,131 \end{array}$$
166) A
167) B
168) A
169) C
170) A
171) C
172) A
173) B
174) A
175) A
176) D
177) D
178) D
179) B
180) A
181) D
182) C
183) A
184) B
185) A
186) C
187) B
188) A
189) C
190) A
191) B
192) C
193) C
194) B
195) D
196) D
197) D

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

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

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

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348) A
349) D
350) B
351) B
352) C
353) D
354) D
355) C
356) A
357) B
358) D
359) C
360) A
361) B
362) B
363) C
364) B
365) A
366) B
367) A
368) D
369) D
370) D
371) D
372) C
373) D
374) B
375) D
376) A
377) D
378) B
379) C
380) D
381) A
382) D
383) B
384) D
385) D
386) A
387) A
388) A
389) C
390) C
391) A
392) C
393) D
394) A
395) D
396) D
397) D

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398) D
399) A
400) D
401) A
402) A
403) D
404) A
405) B
406) B
407) B
408) B
409) D
410) B
411) D
412) A
413) A
414) B
415) A
416) A
417) A
418) A
419) C
420) B
421) B
422) B
423) D
424) A
425) A
426) A
427) B
428) B
429) A
430) A
431) B
432) B
433) C
434) B
435) A
436) A
437) B
438) C
439) B
440) B
441) D
442) D
443) D
444) D
445) A
446) A
447) D

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448) D
449) A
450) B
451) C
452) D
453) D
454) D
455) B
456) D
457) C
458) A
459) A
460) B
461) A
462) A
463) A
464) B
465) A
466) C
467) C
468) C
469) D
470) A
471) C
472) A
473) B
474) C
475) A
476) D
477) A
478) C
479) A
480) C
481) C
482) B
483) D
484) A
485) C
486) B
487) B
488) D
489) B
490) D
491) C
492) A
493) C
494) A
495) D
496) D
497) D

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498) C
499) A
500) B
501) D
502) A
503) B
504) B
505) D
506) D
507) A
508) C

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