

Name _____

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? 1) _____
A) Check your work B) Do your homework
C) Don't be afraid to ask questions D) Organize your class materials
- 2) Which of these is NOT listed as a tip to help you succeed in this course? 2) _____
A) Choose to attend all class periods and do your homework.
B) Form study groups and/or exchange names and e-mail addresses.
C) Know how to get help if you need it.
D) Read your textbook after you attend class.
- 3) Which of these is NOT an end-of-chapter component designed to help you understand the concepts of the chapter? 3) _____
A) Chapter Highlights B) Calculator Exercises
C) Chapter Tests D) Vocabulary Checks
- 4) Which of these is listed as one of several steps in preparing for an exam? 4) _____
A) Review your class notes, and skip reviewing previous homework assignments.
B) Leave for the exam as late as possible to increase your amount of study time.
C) Skip the concepts and definitions in the Chapter Highlights at the end of the chapter.
D) Practice working out exercises by working the Chapter Review.

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

- 5) 2530 5) _____
A) thousands B) ones C) tens D) hundreds
- 6) 30,542 6) _____
A) ten-thousands B) thousands
C) tens D) hundred-thousands
- 7) 25,304,168 7) _____
A) hundred-thousands B) hundreds
C) ten-thousands D) thousands
- 8) 30,500,421 8) _____
A) millions B) ten-millions C) ten-thousands D) tens
- 9) 1392 9) _____
A) hundreds B) tens C) ones D) thousands
- 10) 403,681,295 10) _____
A) millions B) thousands
C) hundred-thousands D) hundred-millions

11) 463,981		11) _____
A) thousands	B) hundreds	
C) hundred - thousands	D) ten - thousands	

12) 45,271,903		12) _____
A) ten - millions	B) ones	
	C) hundreds	D) tens

Write the whole number in words.

13) 483		13) _____
A) four hundred eighty - three	B) four hundred thirty - eight	
C) four thousand, eight hundred thirty	D) four thousand, eighty - three	

14) 3072		14) _____
A) three hundred thousand, seventy - two	B) thirty thousand, seventy - two	
C) three thousand, seventy - two	D) three thousand, seven hundred twenty	

15) 5870		15) _____
A) five hundred eighty - seven	B) fifty - eight thousand, seventy	
C) five thousand, eight hundred seventy	D) five thousand, eight hundred seven	

16) 135,060		16) _____
A) one million, thirty - five thousand, sixty	B) thirteen thousand, five hundred six	
C) one hundred thirty - five thousand, sixty	D) thirteen thousand, five hundred sixty	

17) 9,300,695		17) _____
A) nine million, three thousand, six hundred ninety - five		
B) ninety - three thousand, six hundred ninety - five		
C) nine million, thirty thousand, six hundred ninety - five		
D) nine million, three hundred thousand, six hundred ninety - five		

18) 22,000,674		18) _____
A) twenty - two million, six hundred seventy - four		
B) twenty - two hundred million, six hundred seventy - four		
C) two million, two thousand, six hundred seventy - four		
D) twenty - two million, six thousand seventy - four		

19) 64,568,009		19) _____
A) sixty - million, five thousand sixty - eight hundred, nine		
B) sixty million, forty - five thousand, sixty - eight hundred and nine		
C) sixty - four million, five hundred sixty - eight thousand, nine		
D) sixty - four million, five hundred thousand, sixty - eight hundred, nine		

20) 235,060		20) _____
A) two hundred thirty - five thousand, sixty		
B) twenty - three thousand, five hundred sixty		
C) twenty - three thousand, five hundred six		
D) two million, thirty - five thousand, sixty		

- 21) 4,200,091 21) _____
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

- 22) 70,146 22) _____
A) seven million, one thousand, forty-six B) seven thousand, one hundred forty-six
C) seventy thousand, one hundred forty-six D) seven hundred one thousand, forty-six

Write the number in the sentence in words.

- 23) Jennilee has 30,000 frequent flier miles. 23) _____
A) thirty thousand B) three hundred thousand
C) thirty million D) three thousand

- 24) There were 961 cars parked in the lot outside a large mall. 24) _____
A) nine thousand sixty-one B) one hundred sixty-nine
C) six hundred nine D) nine hundred sixty-one

- 25) The Petronas Tower 1, in Kuala Lumpur, Malaysia, is 1483 feet tall. 25) _____
A) one thousand, four hundred eighty-three B) fourteen thousand, eight hundred thirty
C) one thousand, four hundred thirty-eight D) fourteen thousand, eighty-three

- 26) The highest point in California is Mount Whitney at an elevation of 14,494 feet. 26) _____
A) fourteen thousand, nine hundred forty-nine
B) one hundred forty thousand, four hundred ninety-four
C) fourteen thousand, four hundred ninety-four
D) one thousand, four hundred ninety-four

- 27) The average population of the suburbs around a certain large city is 72,018. 27) _____
A) seventy-two thousand, eighteen
B) seventy-two thousand, one hundred eight
C) seventy-two hundred, eighteen
D) seven thousand, two hundred eighteen

- 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. 28) _____
A) one hundred twenty-eight million, six hundred fifteen
B) one hundred twenty thousand, eighty-six hundred, fifteen
C) one hundred twenty-eight thousand, six hundred fifteen
D) six hundred fifteen thousand, one hundred twenty-eight

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

- 30) The population of Annie's hometown is approximately 1,650,000. 30) _____
 A) one million, sixty-five thousand B) one million, six hundred fifty thousand
 C) sixteen million, five hundred thousand D) one hundred sixty-five thousand
- 31) Paul has the number 24,730,208 showing on his calculator display. 31) _____
 A) twenty-four million, seventy-three thousand, two hundred eight
 B) twenty-four million, seven hundred thirty thousand, two hundred eighty
 C) twenty-four million, seven hundred three thousand, two hundred eight
 D) twenty-four million, seven hundred thirty thousand, two hundred eight

Write the whole number in standard form.

- 32) Eight thousand, one hundred sixty-seven 32) _____
 A) 8167 B) 810,067 C) 81,067 D) 800,167
- 33) Thirty-two thousand, nine hundred five 33) _____
 A) 320,905 B) 3295 C) 32,905 D) 32,950
- 34) Seven thousand, six 34) _____
 A) 7600 B) 7006 C) 76,000 D) 7060
- 35) Six hundred thirty-eight thousand, nine hundred ninety-seven 35) _____
 A) 638,977 B) 638,997 C) 638,997,000 D) 638,000
- 36) Two hundred six thousand, one hundred seven 36) _____
 A) 260,170 B) 2617 C) 207,106 D) 206,107
- 37) One hundred million, six thousand 37) _____
 A) 1006 B) 100,006,000 C) 1,600,000 D) 106,000,000
- 38) Ten million, three hundred fifty-four thousand, two hundred three 38) _____
 A) 1,354,230 B) 1,354,203 C) 135,423 D) 10,354,203
- 39) Seven million, nine thousand, five hundred forty-one 39) _____
 A) 709,541 B) 790,541 C) 7,009,541 D) 7,090,541

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. 40) _____
 A) 2108 B) 2180 C) 21,008 D) 2018
- 41) Jamie drove five hundred twenty-seven miles to visit his parents. 41) _____
 A) 5027 B) 572 C) 527 D) 5270
- 42) Andy collected eighty-two thousand dollars for his campaign. 42) _____
 A) 82,000 B) 802,000 C) 8200 D) 80,002
- 43) The Johnsons have driven their car forty-eight thousand, eight hundred nine miles in the last few years. 43) _____
 A) 480,809 B) 4889 C) 48,890 D) 48,809

- 44) A certain exotic sports car costs three hundred twelve thousand, four hundred ninety-four dollars. 44) _____
 A) 3,204,940 B) 312,494,000 C) 31,244 D) 312,494
- 45) The population of BigTown is one million, three hundred thirty-five thousand, five hundred six. 45) _____
 A) 13,035,560 B) 133,506 C) 1,035,506 D) 1,335,506
- 46) Don figured out that he had lived five hundred eighty-two million, sixteen thousand seconds. 46) _____
 A) 582,000,016,000 B) 58,216,000 C) 582,016,000 D) 582,160,000
- 47) The volume of water in the lake is eight hundred twenty-one million, ninety-four thousand, six hundred thirteen gallons. 47) _____
 A) 821,094,613 B) 821,940,613 C) 821,000,094,613 D) 82,194,613
- 48) Last year a town consumed ninety-seven million, six thousand twenty-two gallons of water. 48) _____
 A) 976,022 B) 97,006,022 C) 97,060,022 D) 97,006,220

Write the whole number in expanded form.

- 49) 812 49) _____
 A) $8000 + 100 + 20$ B) 81,200 C) $200 + 10 + 8$ D) $800 + 10 + 2$
- 50) 5,634 50) _____
 A) $5000 + 600 + 30 + 4$ B) $4000 + 300 + 60 + 5$
 C) 5,634,000 D) $500 + 30 + 6$
- 51) 94,817 51) _____
 A) $9000 + 400 + 80 + 17$ B) $90,000 + 4000 + 800 + 10 + 7$
 C) 94,817 D) $70,000 + 1000 + 800 + 40 + 9$
- 52) 70,200 52) _____
 A) $70,000 + 2000$ B) $70,000 + 200$ C) $7000 + 200$ D) 7,200,000
- 53) 2,040 53) _____
 A) 204,000 B) $20,000 + 4000$ C) $200 + 4$ D) $2000 + 40$
- 54) 60,750 54) _____
 A) $6000 + 700 + 5$ B) $6000 + 70 + 5$
 C) $60,000 + 7000 + 50$ D) $60,000 + 700 + 50$
- 55) 2,020,560 55) _____
 A) $2,000,000 + 20,000 + 5000 + 60$ B) $200,000 + 20,000 + 500 + 60$
 C) $2,000,000 + 20,000 + 500 + 60$ D) $2,000,000 + 2000 + 500 + 6$
- 56) 48,201,004 56) _____
 A) $48,000,000 + 201,000 + 4$
 B) $40,000,000 + 8,000,000 + 200,000 + 100 + 4$
 C) $40,000,000 + 800,000 + 20,000 + 1000 + 4$
 D) $40,000,000 + 8,000,000 + 200,000 + 1000 + 4$

Write the whole number in the sentence in expanded form.

57) A local radio antenna is 1473 feet tall.

A) $10,000 + 4000 + 700 + 3$

B) $10,000 + 400 + 70 + 3$

C) $1000 + 400 + 70 + 3$

D) $1000 + 400 + 73$

57) _____

58) Ron and Sally climbed a mountain having an elevation of 9,571 ft.

A) $900 + 70 + 5$

B) $90,000 + 5000 + 70 + 1$

C) $90,000 + 500 + 70 + 1$

D) $9000 + 500 + 70 + 1$

58) _____

Solve.

59) Write the largest four-digit number that can be made from the digits 3, 2, 7, and 1 if each digit must be used once.

A) 7321

B) 7312

C) 3721

D) 1237

59) _____

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, seventy-eight

B) two thousand, seven hundred eight

C) twenty thousand, seventy-eight

D) two thousand, seven hundred eighty

60) _____

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

A) three hundred seventy-six

B) three thousand, seven hundred sixty

C) three thousand, seventy-six

D) thirty-seven thousand, sixty

61) _____

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

A) $2000 + 700 + 8$

B) $2700 + 80$

C) $2000 + 700 + 80$

D) $2000 + 70 + 8$

62) _____

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

A) $300 + 70 + 6$

B) $3700 + 6$

C) $3000 + 700 + 6$

D) $3000 + 70 + 6$

63) _____

64) Who won the election?

A) Ms. Vaporis

B) Mr. Olsen

C) Ms. Li

D) Mr. Barone

64) _____

65) Which candidate received the fewest votes?

A) Mr. Barone

B) Ms. Li

C) Ms. Vaporis

D) Mr. Olsen

65) _____

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

A) Ms. Li

B) Mr. Barone

C) Ms. Vaporis

D) Mr. Olsen

66) _____

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) Angela Wong B) Sandra Ouye C) Jose Gonzales D) Sue Miller 67) _____

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

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

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

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

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

73) Write in words the amount spent on advertising by Sue Miller. 73) _____
 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

Add.
 74) $36 + 12$ 74) _____
 A) 84 B) 57 C) 93 D) 48

75) $84 + 67$ 75) _____
 A) 151 B) 152 C) 141 D) 150

76) 76) _____

$$\begin{array}{r} 24 \\ + 23 \\ \hline \end{array}$$

 A) 56 B) 65 C) 47 D) 74

77)

$$\begin{array}{r} 12 \\ 11 \\ + 31 \\ \hline \end{array}$$

A) 54

B) 45

C) 36

D) 63

77) _____

78) $12 + 31 + 21$

A) 55

B) 46

C) 37

D) 64

78) _____

79)

$$\begin{array}{r} 8 \\ 8 \\ 4 \\ 7 \\ + 8 \\ \hline \end{array}$$

A) 38

B) 36

C) 35

D) 33

79) _____

80)

$$\begin{array}{r} 34 \\ 99 \\ 6 \\ 39 \\ + 17 \\ \hline \end{array}$$

A) 249

B) 195

C) 218

D) 205

80) _____

81)

$$\begin{array}{r} 5,818 \\ + 9,593 \\ \hline \end{array}$$

A) 901

B) 15,411

C) 922

D) 821

81) _____

82)

$$\begin{array}{r} 9,696 \\ 726 \\ 55 \\ + 2,065 \\ \hline \end{array}$$

A) 12,542

B) 12,432

C) 11,442

D) 11,532

82) _____

83) $30 + 700 + 90$

A) 820

B) 720

C) 163

D) 82

83) _____

84) $5,136 + 3,987$

A) 9,123

B) 425

C) 324

D) 413

84) _____

85) $31,113 + 23,321$

A) 54,434

B) 54,344

C) 63,434

D) 54,345

85) _____

- | | | | | |
|---|-----------|-----------|-----------|-----------|
| 86) $130 + 7,551$
A) 6,681 | B) 7,681 | C) 7,691 | D) 7,581 | 86) _____ |
| 87) $297 + 25,244$
A) 28,214 | B) 25,541 | C) 24,541 | D) 26,971 | 87) _____ |
| 88) $\begin{array}{r} 486 \\ + 689 \\ \hline \end{array}$
A) 1,265 | B) 1,232 | C) 1,131 | D) 1,175 | 88) _____ |
| 89) $\begin{array}{r} 782 \\ + 50 \\ \hline \end{array}$
A) 822 | B) 1,282 | C) 833 | D) 832 | 89) _____ |
| 90) $\begin{array}{r} 6,886 \\ + 442 \\ \hline \end{array}$
A) 7,228 | B) 7,338 | C) 7,328 | D) 6,328 | 90) _____ |
| 91) $\begin{array}{r} 81,010 \\ + 699 \\ \hline \end{array}$
A) 81,709 | B) 81,719 | C) 88,000 | D) 81,609 | 91) _____ |
| 92) $\begin{array}{r} 15,799 \\ + 37,459 \\ \hline \end{array}$
A) 52,258 | B) 52,158 | C) 53,258 | D) 63,258 | 92) _____ |
| 93) $371 + 851$
A) 1,222 | B) 915 | C) 1,022 | D) 1,015 | 93) _____ |
| 94) $8,780 + 734 + 51 + 7,421$
A) 15,886 | B) 16,876 | C) 15,976 | D) 16,986 | 94) _____ |
| 95) $\begin{array}{r} 6,299 \\ 170 \\ 37 \\ + 6,976 \\ \hline \end{array}$
A) 13,372 | B) 13,482 | C) 12,472 | D) 12,382 | 95) _____ |

96)

$$\begin{array}{r} 29 \\ 755 \\ 4,663 \\ + 16,123 \\ \hline \end{array}$$

A) 20,570

B) 21,550

C) 21,570

D) 21,470

96) _____

97)

$$\begin{array}{r} 7,016 \\ 657 \\ 76 \\ 6,715 \\ + 9,013 \\ \hline \end{array}$$

A) 22,377

B) 23,477

C) 22,467

D) 23,367

97) _____

98)

$$\begin{array}{r} 65,953 \\ 3,773 \\ + 21,990 \\ \hline \end{array}$$

A) 91,816

B) 91,716

C) 90,716

D) 92,816

98) _____

99)

$$\begin{array}{r} 44,888,113 \\ 4,996,901 \\ 367,925 \\ + 6,834,866 \\ \hline \end{array}$$

A) 60,399,130

B) 57,075,675

C) 57,217,805

D) 57,087,805

99) _____

100)

$$\begin{array}{r} 196,939 \\ 32,124 \\ + 4,531,250 \\ \hline \end{array}$$

A) 4,750,313

B) 4,760,313

C) 3,760,313

D) 4,761,313

100) _____

101)

$$\begin{array}{r} 3,419,083 \\ 4,669,435 \\ + 6,889,274 \\ \hline \end{array}$$

A) 14,977,792

B) 14,987,792

C) 14,877,792

D) 14,977,782

101) _____

Solve.

102) Find the sum of 846 and 3,148.

A) 4,094

B) 3,995

C) 3,994

D) 3,984

102) _____

103) Find the total of 97, 27, 6, 16, and 390.

A) 530

B) 439

C) 146

D) 536

103) _____

104) What is 793 increased by 56?

A) 848

B) 849

C) 839

D) 859

104) _____

105) What is 3,137 plus 559 plus 20?

A) 3,716

B) 3,726

C) 3,698

D) 3,616

105) _____

Subtract.

106)

$$\begin{array}{r} 87 \\ - 43 \\ \hline \end{array}$$

A) 38

B) 84

C) 130

D) 44

106) _____

107)

$$\begin{array}{r} 556 \\ - 332 \\ \hline \end{array}$$

A) 888

B) 224

C) 220

D) 124

107) _____

108)

$$\begin{array}{r} 765 \\ - 54 \\ \hline \end{array}$$

A) 711

B) 819

C) 703

D) 611

108) _____

109)

$$\begin{array}{r} 94 \\ - 56 \\ \hline \end{array}$$

A) 48

B) 30

C) 150

D) 38

109) _____

110)

$$\begin{array}{r} 646 \\ - 382 \\ \hline \end{array}$$

A) 164

B) 260

C) 1,028

D) 264

110) _____

111)

$$\begin{array}{r} 655 \\ - 79 \\ \hline \end{array}$$

A) 734

B) 576

C) 566

D) 476

111) _____

- 112)
$$\begin{array}{r} 4,359 \\ - 442 \\ \hline \end{array}$$
 112) _____
- A) 3,833 B) 3,917 C) 3,913 D) 83
- 113)
$$\begin{array}{r} 8,715 \\ - 1,291 \\ \hline \end{array}$$
 113) _____
- A) 7,402 B) 7,422 C) 8,424 D) 7,424
- 114)
$$\begin{array}{r} 8,175 \\ - 1,742 \\ \hline \end{array}$$
 114) _____
- A) 6,433 B) 7,433 C) 6,349 D) 6,429
- 115) $92,129 - 56,795$ 115) _____
- A) 35,324 B) 41,334 C) 35,334 D) 35,284
- 116) $8,040 - 1,561$ 116) _____
- A) 7,589 B) 8,589 C) 6,479 D) 7,521
- 117)
$$\begin{array}{r} 11,531 \\ - 8,898 \\ \hline \end{array}$$
 117) _____
- A) 2,633 B) 2,631 C) 10,633 D) 2,571
- 118)
$$\begin{array}{r} 7,030 \\ - 2,287 \\ \hline \end{array}$$
 118) _____
- A) 5,257 B) 4,743 C) 6,253 D) 5,853
- 119)
$$\begin{array}{r} 75,137 \\ - 29,752 \\ \hline \end{array}$$
 119) _____
- A) 45,321 B) 45,385 C) 54,385 D) 45,381
- 120)
$$\begin{array}{r} 70,000 \\ - 12,827 \\ \hline \end{array}$$
 120) _____
- A) 78,283 B) 72,827 C) 57,173 D) 62,827

121) $90,000 - 41,922$

A) 132,518

B) 48,078

C) 121,922

D) 51,922

121) _____

122) $49,759 - 5,423$

A) 52,156

B) 44,336

C) 48,336

D) 44,036

122) _____

Solve.

123) Find 8 subtracted from 93.

A) 86

B) 84

C) 95

D) 85

123) _____

124) Find the difference of 92 and 9

A) 84

B) 83

C) 93

D) 82

124) _____

125) Subtract 6 from 85.

A) 78

B) 89

C) 80

D) 79

125) _____

126) Find the difference of 31 and 5.

A) 25

B) 26

C) 36

D) 27

126) _____

127) Find 48 subtracted from 95.

A) 143

B) 67

C) 47

D) 37

127) _____

128) Find 631 less 96.

A) 533

B) 727

C) 535

D) 435

128) _____

129) Find 59 subtracted from 93.

A) 44

B) 34

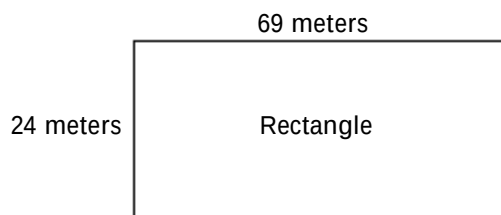
C) 28

D) 152

129) _____

Find the perimeter.

130)



A) 162 m

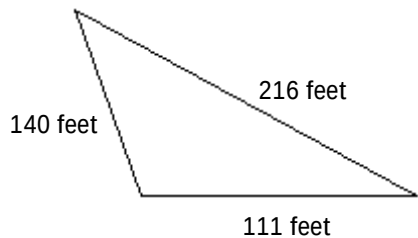
B) 93 m

C) 186 m

D) 1,656 m

130) _____

131)



A) 24,332 ft

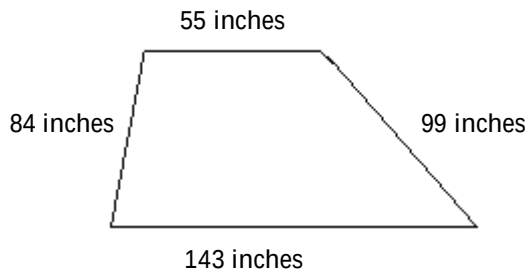
B) 356 ft

C) 467 ft

D) 457 ft

131) _____

132)



A) 366 in.

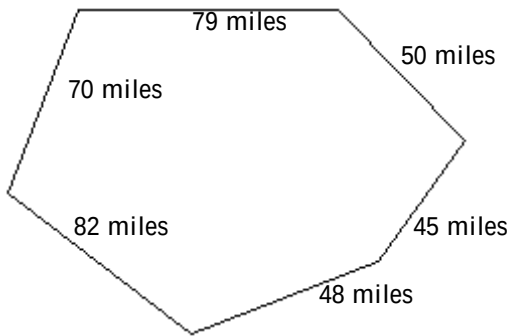
B) 308 in.

C) 381 in.

D) 326 in.

132) _____

133)



A) 304 mi

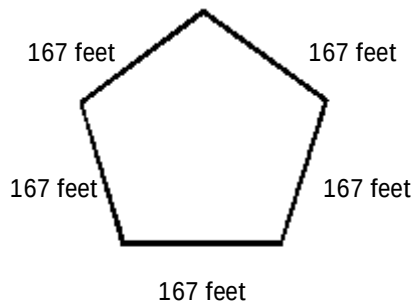
B) 453 mi

C) 394 mi

D) 374 mi

133) _____

134)



A) 850 ft

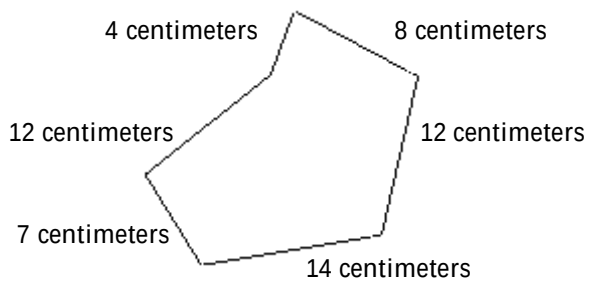
B) 1,002 ft

C) 27,889 ft

D) 835 ft

134) _____

135)



A) 45 cm

B) 57 cm

C) 49 cm

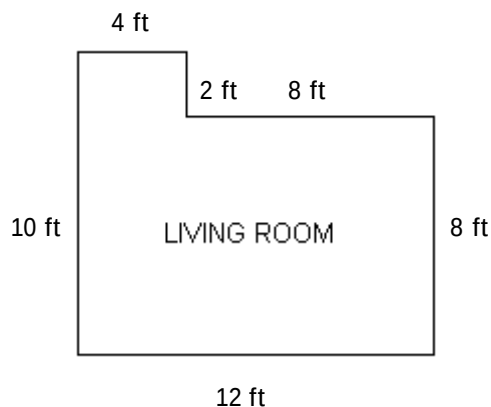
D) 64 cm

135) _____

Solve.

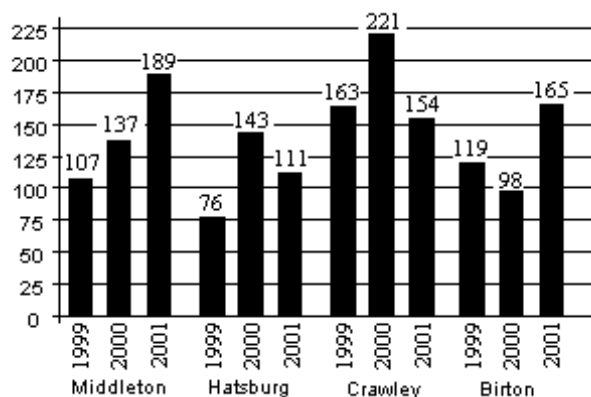
- 136) Lew is installing an invisible fence in his back yard which measures 112 feet by 66 feet by 87 feet by 94 feet. How many feet of wiring is needed to enclose his yard? 136) _____
A) 369 ft B) 379 ft C) 349 ft D) 359 ft
- 137) A store sold 39 lamps on Monday, 17 lamps on Tuesday, and 25 lamps on Wednesday. How many lamps did the store sell in all? 137) _____
A) 80 lamps B) 81 lamps C) 82 lamps D) 91 lamps
- 138) Last year a company had 5,883 employees. This year the number of employees increased by 1,399. How many employees does the company have now? 138) _____
A) 7,282 employees B) 7,292 employees
C) 7,182 employees D) 7,382 employees
- 139) A town's population in 1976 was 130,533. By the year 2000 it had increased by 26,008. How many people lived there in 2000? 139) _____
A) 155,541 people B) 157,541 people C) 156,541 people D) 156,641 people
- 140) A store sold 35 rugs on Monday, 17 rugs on Tuesday, and 25 rugs on Wednesday. How many rugs did the store sell in all? 140) _____
A) 87 rugs B) 76 rugs C) 78 rugs D) 77 rugs
- 141) Isabelle went shopping for holiday presents for her family. She spent \$138 on Monday, \$324 on Tuesday, and \$134 on Wednesday. What is the total amount of money that she spent on gifts? 141) _____
A) \$596 B) \$496 C) \$706 D) \$606
- 142) A traveler picks up a rental car that has an odometer reading of 15,891 miles on it. When he returns it, the odometer reads 16,414 miles. How many miles did he drive the rental car? 142) _____
A) 623 mi B) 323 mi C) 523 mi D) 5,305 mi
- 143) The Green County school system has 2,947 high school students, 3,264 middle school students, and 4,182 elementary school students. How many students are in the Green County school system in total? 143) _____
A) 10,353 students B) 10,448 students C) 10,301 students D) 10,393 students
- 144) An election for student body president was held over 3 days. On the first day Jason received 353 votes and Tina received 160 votes. On the second day Jason received 133 votes and Tina received 261 votes. On the third day Jason received 398 votes and Tina received 152 votes. How many votes did Tina receive? 144) _____
A) 546 votes B) 884 votes C) 792 votes D) 573 votes
- 145) It is 77 miles from Waterton to Hartford. It is 88 miles from Hartford to Fontana. Driving directly, it is 136 miles directly from Waterton to Fontana. It is 37 miles from Fontana to Ridgeport. If Tim drives from Waterton to Hartford, then from Hartford to Fontana, and finally home to Waterton, how many miles does he drive? 145) _____
A) 250 mi B) 291 mi C) 301 mi D) 338 mi
- 146) A stock worth \$264 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. 146) _____
A) \$199 B) \$191 C) \$190 D) \$189

- 147) Claire is reading a 401-page book. If she has just finished reading page 298, how many more pages must she read to finish the book? 147) _____
 A) 103 pages B) 113 pages C) 213 pages D) 104 pages
- 148) A camera that sells regularly for \$310 is discounted by \$99 in a sale. What is the sale price? 148) _____
 A) \$99 B) \$409 C) \$221 D) \$211
- 149) Janet has a total of \$2,605 in her checking account. If she writes a check for each of the items below, how much money will be left in her account? 149) _____
 phone \$ 48
 rent \$750
 car \$429
 A) \$1,378 B) \$1,377 C) \$1227 D) \$1,368
- 150) Pat is trading her car in for a new car. The new car costs \$27,025. Her car is worth \$5,998. How much more money does she need to buy the new car? 150) _____
 A) \$21,027 B) \$20,927 C) \$21,017 D) \$21,028
- 151) The population of Harlowe County is 1,029,772. The population of Marshall County is 116,372. The population of Cameron County is 147,837. How much greater is the population of Harlowe County than Cameron County? 151) _____
 A) 913,400 B) 881,835 C) 914,400 D) 881,935
- 152) As part of homecoming festivities the student organizations are selling donuts. The fraternities have sold 456,123 donuts; the sororities have sold 111,112 donuts; the band members have sold 246,321 donuts; and the athletes have sold 351,056 donuts. Have they reached their goal of 1 million donuts sold? If not, how many more donuts need to be sold? 152) _____
 A) no; 164,612 B) yes
- 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? 153) _____



- A) 36 ft B) 44 ft C) 42 ft D) 40 ft

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 Middleton from 1,999 to 2,000? 154) _____
 A) 30 B) 54 C) 52 D) 28
- 155) What was the total number of new residents in Hatsburg during the years 1999 to 2001? 155) _____
 A) 417 B) 433 C) 321 D) 330
- 156) What was the total number of new residents in Birton during the years 1999 to 2001? 156) _____
 A) 330 B) 282 C) 382 D) 417
- 157) What was the total number of new residents in the four towns during the year 2000? 157) _____
 A) 567 B) 465 C) 619 D) 599
- 158) In the year 2000, how many more new residents did Crawley have than Middleton? 158) _____
 A) 35 B) 78 C) 84 D) 32
- 159) In the year 2000, which town had the smallest number of new residents? 159) _____
 A) Birton B) Crawley C) Middleton D) Hatsburg
- 160) How many more new residents were there in total in 2001 than in 1999? 160) _____
 A) 168 B) 172 C) 141 D) 154
- 161) During the period 1999-2001, how many more new residents were there in Crawley than in Hatsburg? 161) _____
 A) 182 B) 208 C) 186 D) 199

Solve.

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

162) _____

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 Minnesota increase from 1,980 to 2,000?

A) 753,814

B) 456,685

C) 754,814

D) 455,685

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

163) _____

City	Number of Restaurants
Carlsbad	446
Potters Vale	323
Little Heath	346
Edgbaston	257
Barrow	294

How many more restaurants are there in Carlsbad than in Barrow?

A) 446

B) 189

C) 740

D) 152

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

164) _____

City	Number of Restaurants
Carlsbad	490
Potters Vale	312
Little Heath	261
Edgbaston	321
Barrow	300

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

A) 1,684

B) 1,163

C) 1,053

D) 1,063

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.

165) _____

$$\begin{array}{r} 1_8_1 \\ - 449_ \\ \hline 10,3_1 \end{array}$$

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

Round the whole number to the given place.

- | | | | | | |
|--|---------------|---------------|---------------|---------------|------------|
| 166) 998 to the nearest ten | A) 1,100 | B) 1,010 | C) 990 | D) 1,000 | 166) _____ |
| 167) 697 to the nearest ten | A) 700 | B) 710 | C) 680 | D) 690 | 167) _____ |
| 168) 4,325 to the nearest hundred | A) 4,200 | B) 4,400 | C) 4,300 | D) 4,310 | 168) _____ |
| 169) 8,485 to the nearest hundred | A) 8,500 | B) 8,490 | C) 8,600 | D) 8,400 | 169) _____ |
| 170) 72,328 to the nearest hundred | A) 72,300 | B) 72,310 | C) 72,400 | D) 72,200 | 170) _____ |
| 171) 6,332 to the nearest thousand | A) 6,000 | B) 5,900 | C) 6,100 | D) 7,000 | 171) _____ |
| 172) 11,339 to the nearest thousand | A) 12,000 | B) 21,000 | C) 11,000 | D) 11,100 | 172) _____ |
| 173) 78,861 to the nearest thousand | A) 79,000 | B) 78,900 | C) 80,000 | D) 78,000 | 173) _____ |
| 174) 678,539 to the nearest ten thousand | A) 700,000 | B) 670,000 | C) 680,000 | D) 678,000 | 174) _____ |
| 175) 48,684 to the nearest ten thousand | A) 49,000 | B) 50,000 | C) 48,000 | D) 48,700 | 175) _____ |
| 176) 36,602,401 to the nearest million | A) 37,000,000 | B) 36,700,000 | C) 36,602,000 | D) 36,000,000 | 176) _____ |
| 177) 84,998 to the nearest ten | A) 85,000 | B) 84,900 | C) 84,990 | D) 84,000 | 177) _____ |
| 178) 467,495 to the nearest hundred | A) 467,500 | B) 467,000 | C) 467,400 | D) 468,000 | 178) _____ |
| 179) 937,499 to the nearest thousand | A) 937,400 | B) 937,000 | C) 937,500 | D) 938,000 | 179) _____ |
| 180) 999 to the nearest ten | A) 10,000 | B) 1,000 | C) 990 | D) 1,090 | 180) _____ |

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

181) 8229

- A) Ten 8,230
Hundred 8,200
Thousand 8,000
C) Ten 8,220
Hundred 8,300
Thousand 9,000

- B) Ten 8,220
Hundred 8,200
Thousand 8,000
D) Ten 8,230
Hundred 8,300
Thousand 8,000

181) _____

182) 2652

- A) Ten 2,660
Hundred 2,700
Thousand 3,000
C) Ten 2,650
Hundred 2,600
Thousand 3,000

- B) Ten 2,650
Hundred 2,700
Thousand 3,000
D) Ten 2,660
Hundred 2,600
Thousand 2,000

182) _____

183) 6194

- A) Ten 6,200
Hundred 6,100
Thousand 7,000
C) Ten 6,190
Hundred 6,200
Thousand 6,000

- B) Ten 6,190
Hundred 6,100
Thousand 6,000
D) Ten 6,200
Hundred 6,200
Thousand 6,000

183) _____

184) 1168

- A) Ten 1,160
Hundred 1,200
Thousand 1,000
C) Ten 1,170
Hundred 1,100
Thousand 1,000

- B) Ten 1,170
Hundred 1,200
Thousand 1,000
D) Ten 1,160
Hundred 1,100
Thousand 2,000

184) _____

185) 66,692

- A) Ten 66,690
Hundred 66,700
Thousand 66,000
C) Ten 66,700
Hundred 66,700
Thousand 70,000

- B) Ten 66,690
Hundred 66,700
Thousand 67,000
D) Ten 66,700
Hundred 66,600
Thousand 66,000

185) _____

186) 72,269

- A) Ten 72,260
Hundred 72,200
Thousand 73,000
C) Ten 72,270
Hundred 72,300
Thousand 72,000

- B) Ten 72,270
Hundred 72,260
Thousand 73,000
D) Ten 72,260
Hundred 72,300
Thousand 72,280

186) _____

Round the whole number to the given place.

187) In 2006, the number of students enrolled at a certain university was 35,551 . Round this number to the nearest thousand. 187) _____

- A) 35,600 B) 35,000 C) 40,000 D) 36,000

188) In 2005, a company spent \$693,749,442 on advertising. Round the advertising figure to the nearest hundred - thousand. 188) _____

- A) 693,800,000 B) 693,700,000 C) 600,000,000 D) 700,000,000

189) A publishing company sold 47,268,591 books in 2000. Round the number of books sold to the nearest ten - million. 189) _____

- A) 47,270,000 B) 50,000,000 C) 40,000,000 D) 47,000,000

190) In 2005, the sales of a certain multinational corporation were \$98,664,000,000. Round this amount to the nearest billion. 190) _____

- A) \$98,700,000,000 B) \$100,000,000,000
C) \$98,000,000,000 D) \$99,000,000,000

191) In 2005, the population of a certain city was 98,660,560. Round this number to the nearest million. 191) _____

- A) 98,000,000 B) 98,700,000 C) 99,000,000 D) 100,000,000

192) In 2005, a company spent \$793,749,438 on television advertising. Round this amount to the nearest hundred - million. 192) _____

- A) \$793,800,000 B) \$793,700,000 C) \$700,000,000 D) \$800,000,000

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

193) 193) _____

$$\begin{array}{r} 61 \\ 44 \\ 13 \\ 74 \\ + 33 \\ \hline \end{array}$$

- A) 230 B) 200 C) 225 D) 210

194) 194) _____

$$\begin{array}{r} 45 \\ - 14 \\ \hline \end{array}$$

- A) 40 B) 31 C) 60 D) 30

195) 195) _____

$$\begin{array}{r} 74 \\ + 84 \\ \hline \end{array}$$

- A) 150 B) 158 C) 160 D) 200

196)

$$\begin{array}{r} 8,107 \\ - 1,474 \\ \hline \end{array}$$

A) 6,633

B) 6,640

C) 6,600

D) 6,630

196) _____

197)

$$\begin{array}{r} 774 \\ - 97 \\ \hline \end{array}$$

A) 670

B) 680

C) 700

D) 677

197) _____

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

198)

$$\begin{array}{r} 578 \\ 557 \\ 565 \\ 665 \\ + 584 \\ \hline \end{array}$$

A) 2,950

B) 2,900

C) 3,100

D) 2,949

198) _____

199)

$$\begin{array}{r} 367 \\ - 229 \\ \hline \end{array}$$

A) 600

B) 100

C) 138

D) 200

199) _____

200)

$$\begin{array}{r} 4,751 \\ + 7,065 \\ \hline \end{array}$$

A) 11,800

B) 11,816

C) 11,900

D) 12,000

200) _____

201)

$$\begin{array}{r} 861 \\ 805 \\ 978 \\ 993 \\ + 194 \\ \hline \end{array}$$

A) 3,800

B) 3,831

C) 3,900

D) 3,830

201) _____

202)

$$\begin{array}{r} 5,129 \\ 7,985 \\ + 3,942 \\ \hline \end{array}$$

A) 16,000

B) 17,100

C) 18,000

D) 17,000

202) _____

203) 203) _____

$$\begin{array}{r} 957 \\ - 128 \\ \hline \end{array}$$

- A) 900 B) 829 C) 1,100 D) 800

204) 204) _____

$$\begin{array}{r} 9,462 \\ - 1,642 \\ \hline \end{array}$$

- A) 7,820 B) 7,900 C) 7,800 D) 8,000

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

205) $613 + 782 + 525 + 476 = 2,396$ 205) _____

A) Incorrect. Estimate: 2,300 B) Incorrect. Estimate: 2,500
C) Correct. Estimate: 2,400 D) Incorrect. Estimate: 2,600

206) $402 + 883 + 207 + 717 = 2,109$ 206) _____

A) Incorrect. Estimate: 2,300 B) Incorrect. Estimate: 2,400
C) Incorrect. Estimate: 2,100 D) Incorrect. Estimate: 2,200

Solve the problem by estimating.

207) Andy wants to buy a refrigerator for \$799, a stove for \$559, and a dishwasher for \$549. Round each cost to the nearest hundred to estimate the total cost. 207) _____

A) \$1,900 B) \$1,800 C) \$1,700 D) \$2,000

208) The Pan family took a trip and traveled 68, 465, 349, 439, 598, and 260 miles on 6 consecutive days. Round each distance to the nearest hundred to estimate the distance they traveled. 208) _____

A) 2,300 miles B) 2,100 miles C) 2,200 miles D) 2,400 miles

209) Linda scored 92, 95, 70, 98, 64, and 100 on her calculus tests. Round each score to the nearest ten to estimate her total score. 209) _____

A) 500 B) 530 C) 520 D) 510

210) Toni's car has 91,323 miles on the odometer, while Bill's car has 21,531 miles on the odometer. Round each mileage to the nearest thousand to estimate the differences in the mileages of the two cars. 210) _____

A) 70,000 mi B) 69,900 mi C) 69,800 mi D) 69,000 mi

211) Enrollment figures at a community college showed an increase from 23,667 credit hours in 2005 to 76,265 credit hours in 2006. Round each number to the nearest thousand to estimate the increase. 211) _____

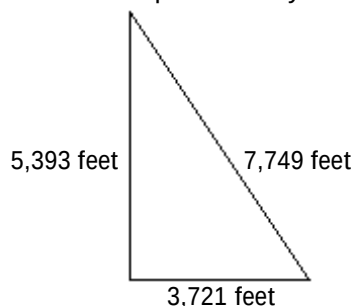
A) 52,600 credit hours B) 52,700 credit hours
C) 53,000 credit hours D) 52,000 credit hours

212) Nicole can buy a motorbike for \$1,534 or a car for \$9,076. Round each price to the nearest hundred to estimate the difference in the prices of the two vehicles. 212) _____

A) \$8,000 B) \$7,500 C) \$7,542 D) \$7,600

- 213) In 1999, the population of Capital City was 8,185,831 and the population of Spring City was 3,812,652. Round each population to the nearest hundred - thousand to estimate the difference in the populations of the two cities. 213) _____
- A) 4,500,000 B) 4,300,000 C) 4,400,000 D) 4,373,000

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



- A) 16,800 ft B) 8,400 ft C) 10,033,700 ft D) 16,900 ft
- 215) A number rounded to the nearest hundred is 1,900. Determine the smallest possible number. 215) _____
- A) 1,851 B) 1,850 C) 1,849 D) 1,950

Multiply.

- 216) $92 \cdot 1$ 216) _____
- A) 92 B) 921 C) 0 D) 1
- 217) $1 \cdot 72$ 217) _____
- A) 0 B) 72 C) 1 D) 172
- 218) $14 \cdot 0$ 218) _____
- A) 140 B) 0 C) 1 D) 14
- 219) $0 \cdot 12$ 219) _____
- A) $\frac{1}{12}$ B) 1 C) 0 D) 12
- 220) $7 \cdot 6 \cdot 0$ 220) _____
- A) 760 B) 13 C) 42 D) 0
- 221) $12 \cdot 0 \cdot 9$ 221) _____
- A) 208 B) 0 C) 98 D) 108

Use the distributive property to rewrite the expression.

- 222) $7(4 + 3)$ 222) _____
- A) $7 \cdot 4 + 7 \cdot 3$ B) $7 \cdot 4 + 3$ C) $7 + 4 + 3$ D) $7 \cdot 4 \cdot 3$
- 223) $2(1 + 5)$ 223) _____
- A) $2 + 1 + 5$ B) $2 \cdot 1 + 5$ C) $2 \cdot 1 \cdot 5$ D) $2 \cdot 1 + 2 \cdot 5$
- 224) $29(17 + 44)$ 224) _____
- A) $29 \cdot 61$ B) $29 \cdot 17 + 29 \cdot 44$ C) $29 + 17 + 44$ D) $29 \cdot 17 + 44$

Multiply.

225)

$$\begin{array}{r} 96 \\ \times 3 \\ \hline \end{array}$$

A) 388

B) 288

C) 279

D) 278

225) _____

226)

$$\begin{array}{r} 574 \\ \times 6 \\ \hline \end{array}$$

A) 3,344

B) 3,454

C) 3,544

D) 3,444

226) _____

227) 376×4

A) 1,604

B) 1,504

C) 1,404

D) 1,514

227) _____

228) $3,878 \times 9$

A) 34,912

B) 34,902

C) 35,002

D) 34,802

228) _____

229)

$$\begin{array}{r} 6,829 \\ \times 9 \\ \hline \end{array}$$

A) 61,461

B) 61,361

C) 61,471

D) 61,561

229) _____

230)

$$\begin{array}{r} 85,444 \\ \times 8 \\ \hline \end{array}$$

A) 683,652

B) 683,542

C) 683,552

D) 683,522

230) _____

231)

$$\begin{array}{r} 36 \\ \times 16 \\ \hline \end{array}$$

A) 586

B) 576

C) 566

D) 676

231) _____

232)

$$\begin{array}{r} 679 \\ \times 53 \\ \hline \end{array}$$

A) 35,987

B) 35,977

C) 35,997

D) 36,087

232) _____

233)

$$\begin{array}{r} 509 \\ \times 16 \\ \hline \end{array}$$

A) 8,135

B) 8,153

C) 8,144

D) 944

233) _____

- 234)
$$\begin{array}{r} 748 \\ \times 897 \\ \hline \end{array}$$
 234) _____
- A) 670,956 B) 670,946 C) 671,056 D) 670,966
- 235)
$$\begin{array}{r} 496 \\ \times 110 \\ \hline \end{array}$$
 235) _____
- A) 54,560 B) 5,456 C) 545,600 D) 49,600
- 236)
$$\begin{array}{r} 5,553 \\ \times 475 \\ \hline \end{array}$$
 236) _____
- A) 2,647,675 B) 2,637,775 C) 2,636,675 D) 2,637,675
- 237) $(41)(606)(0)$ 237) _____
- A) 24,946 B) 0 C) 24,836 D) 24,846
- 238) $(230)(30)$ 238) _____
- A) 6,896 B) 6,890 C) 6,910 D) 6,900
- 239) $(220)(1)(30)$ 239) _____
- A) 6,590 B) 6,596 C) 6,610 D) 6,600
- 240) $1,113 \times 63$ 240) _____
- A) 66,783 B) 10,017 C) 70,119 D) 6,578
- 241) 634×305 241) _____
- A) 193,370 B) 193,470 C) 193,380 D) 193,360
- 242)
$$\begin{array}{r} 1,209 \\ \times 602 \\ \hline \end{array}$$
 242) _____
- A) 727,818 B) 726,609 C) 74,958 D) 9,672
- 243)
$$\begin{array}{r} 1,733 \\ \times 1,407 \\ \hline \end{array}$$
 243) _____
- A) 2,438,331 B) 1,745,131 C) 2,547,510 D) 1,814,451

Estimate the answer by rounding as indicated.

- 244) Estimate the product by rounding each factor to the nearest ten. 244) _____
- 98×11
- A) 9,000 B) 2,000 C) 1,000 D) 900

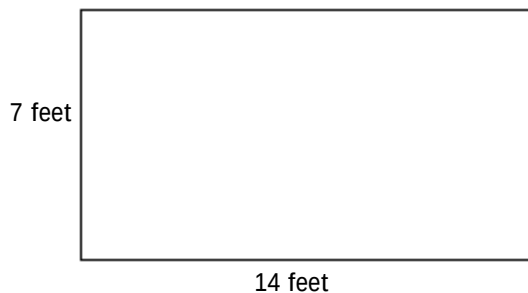
- 245) Estimate the product by rounding each factor to the nearest hundred. 245) _____
 995×386
 A) 1,400 B) 384,100 C) 384,070 D) 400,000
- 246) Estimate the product by rounding each factor to the nearest hundred. 246) _____
 609×406
 A) 24,000,000 B) 2400 C) 240,000 D) 24,000
- 247) Estimate the product by rounding each factor to the nearest hundred. 247) _____
 105×499
 A) 400,000 B) 500,000 C) 50,000 D) 40,000
- 248) Estimate the product by rounding each factor to the nearest ten. 248) _____
 863×86
 A) 950 B) 77,400 C) 74,220 D) 74,218
- 249) Estimate the product by rounding the first factor to the nearest hundred and the second factor to the nearest ten. 249) _____
 729×69
 A) 56,000 B) 49,000 C) 42,000 D) 48,000
- 250) Estimate the product by rounding each factor to the nearest thousand. 250) _____
 $2,851 \times 4,320$
 A) 12,000,000 B) 12,316,300 C) 12,316,000 D) 12,470,000

Solve.

- 251) Find the product of 5 and 400. 251) _____
 A) 900 B) 20,000 C) 2000 D) 200
- 252) Multiply 70 by 48. 252) _____
 A) 2860 B) 336 C) 286 D) 3360
- 253) Find 2 times 2,154. 253) _____
 A) 4,308 B) 4,318 C) 4,408 D) 4,208

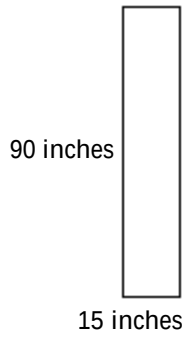
Find the area of the rectangle.

- 254) 254) _____



- A) 196 sq ft B) 147 sq ft C) 98 sq ft D) 49 sq ft

255)



A) 1,340 sq in.

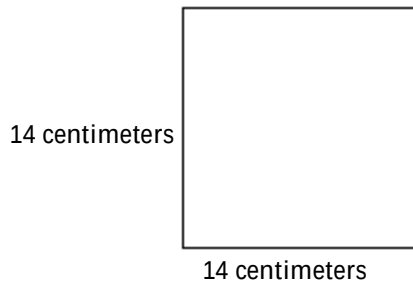
B) 1,125 sq in.

C) 1,350 sq in.

D) 105 sq in.

255) _____

256)



A) 56 sq cm

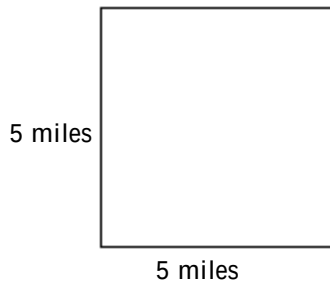
B) 196 sq cm

C) 392 sq cm

D) 191 sq cm

256) _____

257)



A) 21 sq mi

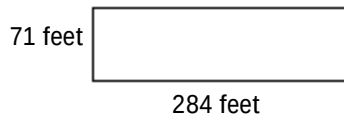
B) 25 sq mi

C) 28 sq mi

D) 20 sq mi

257) _____

258)



A) 20,154 sq ft

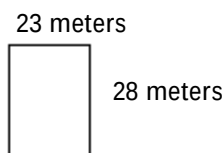
B) 710 sq ft

C) 20,164 sq ft

D) 20,174 sq ft

258) _____

259)



259) _____

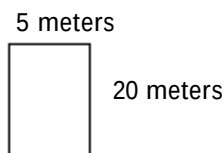
A) 1,288 sq m

B) 644 sq m

C) 102 sq m

D) 51 sq m

260)



260) _____

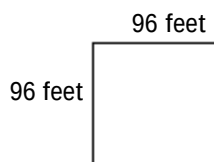
A) 200 sq m

B) 25 sq m

C) 50 sq m

D) 100 sq m

261)



261) _____

A) 192 sq ft

B) 384 sq ft

C) 18,432 sq ft

D) 9,216 sq ft

Solve.

262) The textbook for a history class costs \$55. There are 31 students in the class. Find the total cost of the history books for the class.

262) _____

A) \$1,705

B) \$1,650

C) \$1,674

D) \$86

263) The seats in the lecture hall are arranged in 19 rows with 6 seats in each row. Find how many seats are in this room.

263) _____

A) 120 seats

B) 124 seats

C) 114 seats

D) 108 seats

264) A case of candy bars has 3 layers of candy bars. In each layer are 8 rows with 15 candy bars in each row. Find how many candy bars are in a case.

264) _____

A) 370 candy bars

B) 350 candy bars

C) 360 candy bars

D) 359 candy bars

265) An apartment complex has 8 apartment buildings. Each building has 6 floors with 3 apartments per floor. Find how many apartments are in this complex.

265) _____

A) 17 apartments

B) 134 apartments

C) 144 apartments

D) 154 apartments

266) A rectangular plot of land measure 60 feet by 180 feet. Find its area.

266) _____

A) 480 sq ft

B) 10,800 sq ft

C) 1,080 sq ft

D) 240 sq ft

267) The floor plan of a building is a rectangle which measures 228 meters by 57 meters. Find the floor area of the building.

267) _____

A) 12,986 sq m

B) 570 sq m

C) 13,006 sq m

D) 12,996 sq m

- 268) A mural on the wall of a building is a rectangle which measures 584 in. by 110 in. Find the area of the mural. 268) _____
 A) 64,240 sq in. B) 642,400 sq in. C) 58,400 sq in. D) 6,424 sq in.
- 269) In a distant solar system the diameter of planet A is 7 times as great as the diameter of planet B. The diameter of planet B is 907 miles. Find the diameter of planet A. 269) _____
 A) 6,339 mi B) 6,249 mi C) 6,342 mi D) 6,349 mi
- 270) A company rents a mid-size car at \$299 per month for twelve months. What is the cost for the car rental during this time? 270) _____
 A) \$3,620 B) \$3,588 C) \$311 D) \$3,537
- 271) There are 88 puppies in a room, with an assortment of black and white ears and paws. 19 have totally black ears and 3 white paws, 15 puppies have 1 black ear and 4 white paws, and 54 have no black ears and 1 white paw. How many black paws are in the room? 271) _____
 A) 171 B) 181 C) 174 D) 180
- 272) During the recent Homecoming football game, State U. scored the following: 6 six-point touchdowns, 5 extra points, 6 three-point field goals, and 1 two-point safety. What was State U.'s final score? 272) _____
 A) 28 points B) 27 points C) 19 points D) 61 points
- 273) A spreadsheet is a rectangular array containing 31 rows and 18 entries in each row. How many entries does the spreadsheet contain? 273) _____
 A) 527 entries B) 558 entries C) 5580 entries D) 17,298 entries
- 274) Mark's typing speed is 60 words per minute. How many words can he type in 23 minutes? 274) _____
 A) 1,280 words B) 1,380 words C) 83 words D) 1,390 words
- 275) One packet of peanuts has 15 grams of fat. How many grams of fat are in 8 packets of peanuts? 275) _____
 A) 112 g B) 120 g C) 128 g D) 130 g
- 276) One bag of Alice's favorite cookies contains 343 calories. How many calories are in 9 bags of cookies? 276) _____
 A) 2124 cal B) 3,060 cal C) 2,700 cal D) 3,087 cal
- 277) Tickets for a bluegrass music festival cost \$25 for an adult, \$20 for seniors, \$12 for students, and \$9 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. 277) _____

Person	Number of Persons	Cost per Person	Cost per Category
Adult	13	\$25	\$325
Senior	5	\$20	
Student	18	\$12	
Child under 12	6	\$9	

- A) \$695 B) \$709 C) \$682 D) \$66

278) Fill in the missing digits in the problem.

278) _____

$$\begin{array}{r} 3__ \\ \times __6 \\ \hline 204 \\ 1,020 \\ \hline 1,224 \end{array}$$

- A) 1, 2
C) 8, 6

- B) 4, 3
D) cannot be determined

Find the quotient.

279) $\frac{15}{3}$

279) _____

A) 4 R 3

B) 6

C) 4 R 2

D) 5

280) $\frac{45}{9}$

280) _____

A) 4 R 8

B) 5

C) 6

D) 4 R 9

281) $36 \div 4$

281) _____

A) 9

B) 8 R 4

C) 10

D) 8 R 3

282) $36 \div 4$

282) _____

A) 9

B) 8 R 3

C) 10

D) 8 R 4

283) $\frac{9}{0}$

283) _____

A) 9

B) 1

C) 0

D) undefined

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

284) _____

A) 0

B) 3

C) 1

D) undefined

285) $5 \div 1$

285) _____

A) 5

B) 1

C) 0

D) undefined

286) $30 \div 1$

286) _____

A) 30

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

C) 1

D) undefined

287) $43 \div 0$

287) _____

A) 0

B) $\frac{1}{43}$

C) 43

D) undefined

288) $68 \div 68$

288) _____

A) 68

B) 1

C) 0

D) undefined

289) $0 \div 92$ A) 92	B) 1	C) 0	D) undefined	289) _____
Divide.				
290) $5 \overline{)20}$ A) 4	B) 5	C) 3 R 4	D) 3 R 5	290) _____
291) $5 \overline{)25}$ A) 4 R 4	B) 6	C) 4 R 5	D) 5	291) _____
292) $5 \overline{)285}$ A) 55	B) 60	C) 59	D) 57	292) _____
293) $5 \overline{)680}$ A) 138	B) 136	C) 139	D) 134	293) _____
294) $4 \overline{)5,224}$ A) 1,306	B) 1,304	C) 1,306 R 3	D) 1,304 R 1	294) _____
295) $11 \overline{)396}$ A) 36 R 3	B) 37 R 1	C) 36	D) 37 R 5	295) _____
296) $4,063 \div 17$ A) 240	B) 239	C) 239 R 8	D) 240 R 7	296) _____
297) $66 \overline{)45,870}$ A) 705 R 22	B) 695	C) 685	D) 700 R 14	297) _____
298) $\frac{30,705}{69}$ A) 445	B) 435	C) 450 R 42	D) 455 R 50	298) _____
299) $133 \div 9$ A) 14	B) 14 R 8	C) 14 R 7	D) 21	299) _____
300) $4,426 \div 7$ A) 632	B) 634	C) 632 R 6	D) 632 R 2	300) _____
301) $5 \overline{)4,363}$ A) 872 R 3	B) 872	C) 871 R 8	D) 872 R 2	301) _____
302) $3,415 \div 4$ A) 853 R 2	B) 853 R 3	C) 852 R 7	D) 853	302) _____
303) $80 \div 11$ A) 8 R 3	B) 7 R 3	C) 6 R 6	D) 7 R 4	303) _____

- | | | | | |
|--|---------------|---------------|--------------|------------|
| 304) $325 \div 23$
A) 14 R 3 | B) 12 R 7 | C) 13 R 14 | D) 14 | 304) _____ |
| 305) $4,232 \div 23$
A) 185 | B) 184 | C) 185 R 13 | D) 184 R 14 | 305) _____ |
| 306) $29 \overline{)41,499}$
A) 1,441 R 21 | B) 1,431 | C) 1,436 R 13 | D) 1,421 | 306) _____ |
| 307) $\frac{66,375}{59}$
A) 1,130 R 18 | B) 1,135 R 26 | C) 1,125 | D) 1,115 | 307) _____ |
| 308) $9,399 \div 17$
A) 552 R 12 | B) 552 | C) 552 R 15 | D) 15 | 308) _____ |
| 309) $\frac{6,650}{175}$
A) 36 | B) 38 R 5 | C) 36 R 27 | D) 38 | 309) _____ |
| 310) $\frac{33,852}{217}$
A) 1,560 | B) 166 | C) 156 | D) 149 | 310) _____ |
| 311) $1,162 \div 11$
A) 108 R 5 | B) 105 R 7 | C) 108 R 3 | D) 105 | 311) _____ |
| 312) $145,746 \div 500$
A) 246 | B) 291 | C) 291 R 246 | D) 291 R 236 | 312) _____ |
| 313) $231,864 \div 310$
A) 747 R 264 | B) 747 | C) 294 | D) 747 R 294 | 313) _____ |
| 314) $367 \overline{)231,577}$
A) 632 | B) 631 | C) 6,310 | D) 630 | 314) _____ |
| 315) $93,065 \div 856$
A) 108 R 618 | B) 108 R 617 | C) 108 R 517 | D) 113 R 221 | 315) _____ |
| 316) $684 \overline{)222,153}$
A) 324 R 537 | B) 324 R 520 | C) 537 | D) 324 | 316) _____ |

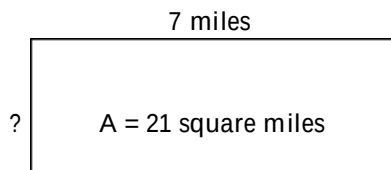
Solve.

- | | | | | |
|---|-------|-----------|-------|------------|
| 317) Find the quotient of 319 and 9.
A) 35 R 8 | B) 39 | C) 35 R 4 | D) 35 | 317) _____ |
|---|-------|-----------|-------|------------|

- 318) Find 124 divided by 8. 318) _____
 A) 19 B) 15 C) 15 R 4 D) 15 R 7
- 319) Find the quotient of 862 and 13. 319) _____
 A) 65 R 4 B) 66 R 4 C) 66 D) 64 R 7
- 320) Amy teaches Chinese lessons for \$55 per student for a 6-week session. From one group of students, she collects \$1,650. Find how many students are in the group. 320) _____
 A) 20 students B) 32 students C) 30 students D) 34 students
- 321) One ticket won a prize of \$9,454,000. 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. 321) _____
 A) \$325,000 B) \$32,700 C) \$326,000 D) \$32,600
- 322) 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 34,560 pounds on planet A, how much does it weigh on planet B? 322) _____
 A) 160 lb B) 1,600 lb C) 170 lb D) 153 lb
- 323) Ms. Losch has a piece of rope 181 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? 323) _____
 A) 26 pieces of rope B) 6 pieces of rope
 C) 25 pieces of rope D) 31 pieces of rope
- 324) 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? 324) _____
 A) 920,000 gal B) 57,500 gal C) 5,750 gal D) 575,000 gal
- 325) Jim and Tammi ran a distance of 26,400 feet. A mile is 5280 ft. How many miles did they run? 325) _____
 A) 5 mi B) 5 mi 2640 ft C) 10 mi D) 6 mi
- 326) There is a bridge over a certain highway every 9 miles. The first bridge is at the beginning of a 231-mile stretch of highway. Find how many bridges there are over 231 miles of the highway. 326) _____
 A) 26 bridges B) 25 bridges C) 31 bridges D) 25 bridges
- 327) Malcom wishes to pay off a car loan of \$7,704 in 36 months. How large will his monthly payment be? 327) _____
 A) \$210 B) \$214 C) \$206 D) \$2,568
- 328) 204 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? 328) _____
 A) 25 boxes; no chocolates left over B) 24 boxes; 5 chocolates left over
 C) 24 boxes; 4 chocolates left over D) 25 boxes; 4 chocolates left over

329) If the area of a rectangle is 21 square miles and its length is 7 miles, what is its width?

329) _____



A) 147 mi

B) 3 mi

C) $\frac{49}{3}$ mi

D) 7 mi

Find the average of the list of numbers.

330) 79, 65, 48, 43, 72, 47

330) _____

A) 57

B) 65

C) 60

D) 59

331) 36, 40, 37, 41, 68, 35, 37

331) _____

A) 52

B) 41

C) 42

D) 37

332) 303, 729, 694, 750

332) _____

A) 519

B) 643

C) 669

D) 619

333) 156, 115, 137, 144, 153

333) _____

A) 140

B) 144

C) 151

D) 141

334) 80, 74, 66, 70, 80

334) _____

A) 80

B) 74

C) 66

D) 73

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.

335) _____

Bill	\$855
Jill	\$7,000
Sue	\$2,000
John	\$5,700

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

A) \$4,500

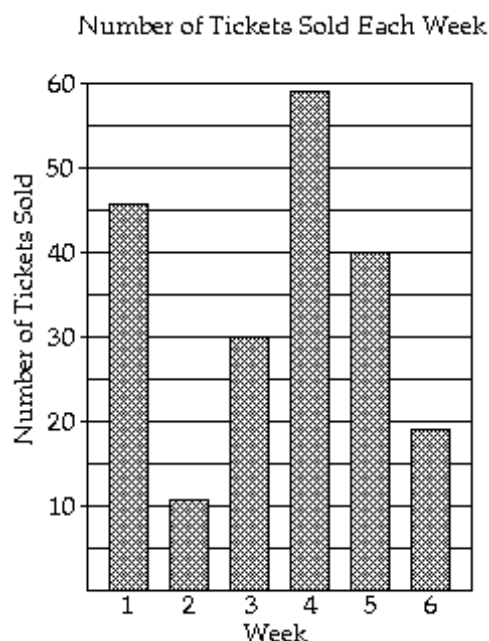
B) \$3,888.75

C) \$9,000

D) \$3,277.50

- 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?

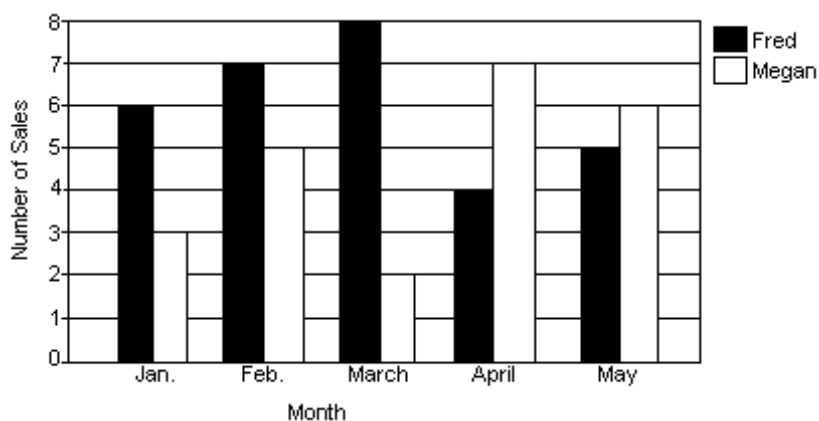
336) _____



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

- 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.

337) _____



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

Write using exponential notation.

338) $4 \cdot 4$

338) _____

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

339) $8 \cdot 8 \cdot 8$

339) _____

- A) 8^1 B) $3 \cdot 8$ C) 8^3 D) 8^3

340) $2 \cdot 2 \cdot 2 \cdot 2$ A) 4^2	B) 2^4	C) 2^2	D) 8	340) _____
341) $8 \cdot 8 \cdot 8 \cdot 8 \cdot 8$ A) $5 \cdot 8$	B) 8^0	C) 5^8	D) 8^5	341) _____
342) $14 \cdot 14 \cdot 14 \cdot 14$ A) 4^{14}	B) 14^4	C) 14^1	D) $4 \cdot 14$	342) _____
343) $13 \cdot 13 \cdot 13 \cdot 13 \cdot 13$ A) 5^{13}	B) $5 \cdot 13$	C) $5 \cdot 5^{13}$	D) 13^5	343) _____
344) $6 \cdot 6 \cdot 5 \cdot 5 \cdot 5 \cdot 5$ A) 30^6	B) $6^2 \cdot 5^4$	C) $2^6 \cdot 4^5$	D) $6 \cdot 5^6$	344) _____
345) $8 \cdot 6 \cdot 6 \cdot 6 \cdot 6 \cdot 6$ A) $(8 \cdot 6)^5$	B) $1^8 \cdot 5^6$	C) $8 \cdot 6^5$	D) 48^5	345) _____
346) $9 \cdot 9 \cdot 5 \cdot 5 \cdot 5 \cdot 5 \cdot 7$ A) $9 \cdot 5 \cdot 7^7$	B) $(9 \cdot 5 \cdot 7)^7$	C) $9^2 \cdot 5^4 \cdot 7$	D) $2^9 \cdot 4^5 \cdot 1^7$	346) _____
347) $2 \cdot 2 \cdot 2 \cdot 5 \cdot 5 \cdot 5 \cdot 5 \cdot 5 \cdot 5 \cdot 6$ A) $3^2 \cdot 6^5 \cdot 1^6$	B) $2^3 \cdot 5^6 \cdot 6$	C) $2 \cdot 5 \cdot 6^{10}$	D) $(2 \cdot 5 \cdot 6)^{10}$	347) _____
Evaluate.				
348) 11^2 A) 22	B) 121	C) 144	D) 2,048	348) _____
349) 14^2 A) 197	B) 28	C) 196	D) 29	349) _____
350) 1^3 A) 13	B) 3	C) 1	D) undefined	350) _____
351) 7^1 A) 1	B) 7	C) 71	D) undefined	351) _____
352) 2^3 A) 6	B) 8	C) 7	D) 9	352) _____
353) 5^3 A) 15	B) 125	C) 64	D) 243	353) _____
354) 3^5 A) 125	B) 243	C) 729	D) 15	354) _____

355) 10^4	A) 1,048,576	B) 40	C) 10,000	D) 1,000	355) _____
356) 6^5	A) 30	B) 15,625	C) 7,776	D) 46,656	356) _____
357) $7 \cdot 5^3$	A) 105	B) 132	C) 42,875	D) 875	357) _____
358) $2 \cdot 3^2$	A) 12	B) 36	C) 16	D) 18	358) _____
Simplify.					
359) $5 \cdot 4 - 6$	A) 120	B) 10	C) 14	D) 26	359) _____
360) $26 + 1 \cdot 9$	A) 243	B) 17	C) 35	D) 260	360) _____
361) $28 - 3 \cdot 2$	A) 22	B) 34	C) 28	D) 50	361) _____
362) $240 \div 8 - 3$	A) 235	B) 48	C) 229	D) 27	362) _____
363) $\frac{240}{6} - 4$	A) 120	B) 230	C) 238	D) 36	363) _____
364) $17 \cdot 11 + 5 \cdot 13$	A) 3,536	B) 252	C) 1,292	D) 2,496	364) _____
365) $30 + 26 \cdot 21 - 2$	A) 0	B) 574	C) 1,174	D) 75	365) _____
366) $12 + 9 \div 3 \cdot 5 - 9$	A) 26	B) 18	C) 81	D) 36	366) _____
367) $0 \div 4 + 5 \cdot 2$	A) 14	B) 10	C) 18	D) undefined	367) _____
368) $9^2 - 2 \cdot 2$	A) 77	B) 98	C) 126	D) 158	368) _____
369) $48 \div 0 + 2$	A) 2	B) 50	C) 24	D) undefined	369) _____

370) $6^2 \div 6 \times 4 + 2$ A) 12	B) 22	C) 48	D) 26	370) _____
371) $(5 + 12) \cdot (16 - 8)$ A) 101	B) 52	C) 136	D) 189	371) _____
372) $\frac{32 + 8 \div 2}{2^2}$ A) 12	B) 5	C) 9	D) 33	372) _____
373) $(60 + 6^2) \div 3 \cdot 2^2$ A) 8	B) 63	C) 108	D) 128	373) _____
374) $[130 - (15 - 4)] - 3^2$ A) 113	B) 128	C) 110	D) 102	374) _____
375) $24 - (16 \div 4) + 5 \cdot 2^2$ A) 22	B) 28	C) 40	D) 100	375) _____
376) $(5 + 5) \cdot 5 + [9 \div (3 \div 3)]$ A) 31	B) 51	C) 59	D) 39	376) _____
377) $84 \div [3^3 + (55 - 6) - 4^3] + 3 \cdot 9$ A) 90	B) 34	C) 111	D) 783	377) _____
378) $\frac{8^2 - 2^3 + 24}{80 \div 5 \cdot 4 \cdot 1 \div 4}$ A) 80	B) 20	C) 34	D) 5	378) _____
379) $[25 - (4 + 6) \div 2] - [1 + 12 \div 3]$ A) 10	B) 12	C) 15	D) 22	379) _____
380) $(6 + 3)[8 + (7 + 7)]$ A) 198	B) 121	C) 1,026	D) 396	380) _____
381) $6 \cdot [3^2 + 8 \cdot (4 + 5)]$ A) 918	B) 90	C) 486	D) 276	381) _____
382) $4[6 + 2(4^2)]$ A) 152	B) 784	C) 280	D) 3,136	382) _____
383) $\frac{153 + 7}{3^2 - 4}$ A) 32	B) 80	C) 30	D) 48	383) _____

$$384) \frac{50(12 - 9) - 6}{3^2 - 3}$$

A) 26

B) 25

C) 24

D) 48

384) _____

$$385) 25 - [9 + (8 - 6)] - (7 - 5)^3$$

A) 6

B) 22

C) 26

D) 4

385) _____

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

A) 1,988

B) 2,464

C) 888

D) 488

386) _____

$$387) 390 - 2^3 \cdot 24 \div (4 \cdot 3 - 2 \cdot 2)$$

A) 760

B) 366

C) 370

D) 1,146

387) _____

$$388) \{[57 - 2 \cdot 3] - [66 \div (1 + 2)]\} \cdot 5$$

A) 175

B) 200

C) 135

D) 145

388) _____

$$389) 3[(6 - 5)^2 + (19 - 17)^2] + 13$$

A) 2

B) 3

C) 54

D) 28

389) _____

$$390) (60 - 18) \cdot [(80 + 20 \div 5) - (8 \cdot 8 - 5 \cdot 5)]$$

A) 1,990

B) 1,947

C) 1,890

D) 1,854

390) _____

$$391) 3 \cdot \{(300 - 30 \div 5) - [3 \cdot 19 - (8 - 2 \cdot 3)]\}$$

A) 667

B) 2,493

C) -783

D) 717

391) _____

Insert parentheses in order to make the statement true.

$$392) 4 \cdot 9 - 3 = 24$$

A) $(4 \cdot 9) - 3 = 24$

B) $(4)(9)(-3) = 24$

C) $4 \cdot (9 - 3) = 24$

D) $4 \cdot 9 (-3) = 24$

392) _____

$$393) 2 + 3 \cdot 8 - 3 = 25$$

A) $(2 + 3) \cdot (8 - 3) = 25$

C) $(2 + 3) \cdot 8 - 3 = 25$

B) $2 + 3 \cdot (8 - 3) = 25$

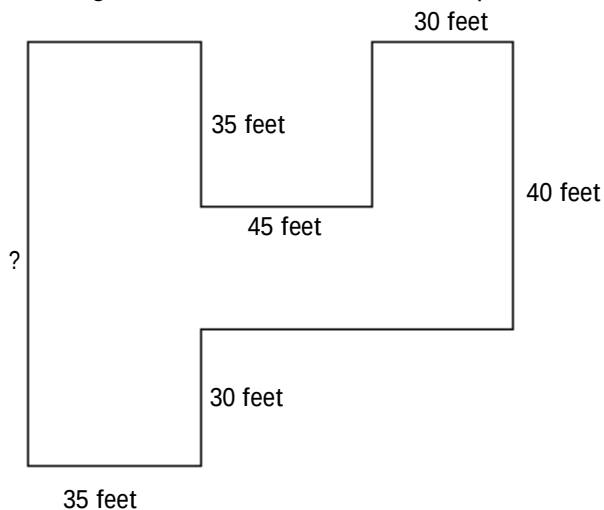
D) $2 + (3 \cdot 8) - 3 = 25$

393) _____

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.

394) _____



A) 3,440 ft

B) 435 ft

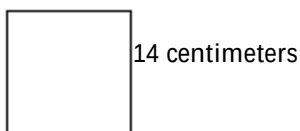
C) 430 ft

D) 3,045 ft

Find the area of the square.

395)

395) _____



A) 392 sq cm

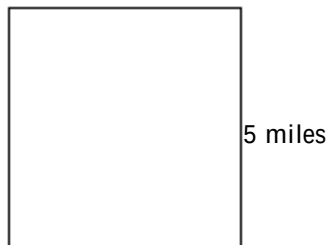
B) 191 sq cm

C) 196 sq cm

D) 56 sq cm

396)

396) _____



A) 20 sq mi

B) 28 sq mi

C) 25 sq mi

D) 21 sq mi

397)

397) _____



A) 4,418 sq m

B) 94 sq m

C) 188 sq m

D) 2,209 sq m

Evaluate the expression for the given replacement values.

398) $x + y$ for $x = 14$, $y = 23$

398) _____

A) 55

B) 73

C) 37

D) 46

399) $x \div y$ for $x = 180, y = 3$	A) 63	B) 58	C) 62	D) 60	399) _____
400) $x \div y$ for $x = 486, y = 0$	A) $\frac{1}{486}$	B) 486	C) 0	D) undefined	400) _____
401) $x \cdot y$ for $x = 6, y = 32$	A) 188	B) 192	C) 292	D) 182	401) _____
402) $x - y + z$ for $x = 23, y = 7, z = 4$	A) 21	B) 34	C) 12	D) 20	402) _____
403) $x - 5yz$ for $x = 97, y = 3, z = 4$	A) 328	B) 85	C) 1,104	D) 37	403) _____
404) $x - (y + z)$ for $x = 20, y = 10, z = 1$	A) 9	B) 31	C) 12	D) 11	404) _____
405) $22 - (y - z)$ for $y = 6, z = 3$	A) 13	B) 31	C) 19	D) 20	405) _____
406) $8x + 9$ for $x = 5$	A) 80	B) 31	C) 49	D) 17	406) _____
407) $3x + 4y$ for $x = 8$ and $y = 2$	A) 11	B) 32	C) 7	D) 28	407) _____
408) $9x - 5y$ for $x = 4$ and $y = 3$	A) 51	B) 31	C) 21	D) 33	408) _____
409) $x^2 - 3y$ for $x = 8, y = 2$	A) 10	B) 22	C) 70	D) 58	409) _____
410) $8x^2 + 2x$ for $x = 4$	A) 72	B) 136	C) 120	D) 40	410) _____
411) $\frac{5x}{y}$ for $x = 28, y = 7$	A) 35	B) 105	C) 120	D) 20	411) _____
412) $\frac{x+y}{6}$ for $x = 24, y = 12$	A) 6	B) 36	C) 16	D) 26	412) _____
413) $\frac{5x+2y}{5}$ for $x = 10, y = 5$	A) 60	B) -8	C) 9	D) 12	413) _____

- 414) $\frac{2x}{6} + \frac{8y}{6}$ for $x = 54, y = 54$ 414) _____
 A) 450 B) 90 C) 27 D) 26
- 415) $\frac{x}{4} + \frac{y}{4}$ for $x = 12, y = 32$ 415) _____
 A) 35 B) 44 C) 20 D) 11
- 416) $(x + 3y)^2$ for $x = 3, y = 2$ 416) _____
 A) 36 B) 18 C) 9 D) 81
- 417) $6x^2 + 2y$ for $x = 5, y = 3$ 417) _____
 A) 64 B) 156 C) 486 D) 906
- 418) $4xy^2 - 6$ for $x = 2, y = 3$ 418) _____
 A) 42 B) 138 C) 570 D) 66
- 419) $6y(2z - x)$ for $x = 9, y = 4, z = 6$ 419) _____
 A) 279 B) 18 C) 72 D) 144
- 420) $\frac{6xy}{z}$ for $x = 6, y = 4, z = 2$ 420) _____
 A) 18 B) 72 C) 144 D) 142
- 421) $\frac{12x - 6}{y}$ for $x = 6, y = 3$ 421) _____
 A) 18 B) 70 C) 22 D) 16
- 422) $x^4 - (y - z)$ for $x = 3, y = 3, z = 2$ 422) _____
 A) 80 B) 76 C) 7 D) 11
- 423) $(7x - yz)^4$ for $x = 2, y = 6, z = 3$ 423) _____
 A) 331,776 B) -16 C) 648 D) 256

Solve the problem.

- 424) The expression $\frac{9C}{5} + 32$ gives the equivalent degrees Fahrenheit for C degrees Celsius. Evaluate this expression when $C = 10$ to find the equivalent temperature in degrees Fahrenheit. 424) _____
 A) 48 B) 49 C) 50 D) 52

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

- 425) Is 14 a solution of $p + 10 = 24$? 425) _____
 A) yes B) no
- 426) Is 3 a solution of $p - 2 = 1$? 426) _____
 A) yes B) no

427) Is 6 a solution of $6m + 4 = 42$? 427) _____
 A) yes B) no

428) Is 34 a solution of $3n = 99$? 428) _____
 A) yes B) no

429) Is 7 a solution of $3x - 5 = 16$? 429) _____
 A) yes B) no

430) Is 5 a solution of $3x - 7 = 38 - 6x$? 430) _____
 A) yes B) no

431) Is 9 a solution of $4(r + 9) = 45$? 431) _____
 A) yes B) no

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

432) $x + 8 = 15$; {6, 7, 8} 432) _____
 A) 6 B) 8 C) 7 D) none of them

433) $21 - n = 19$; {1, 2, 3} 433) _____
 A) 1 B) 2 C) 3 D) none of them

434) $6x = 42$; {7, 8, 252} 434) _____
 A) 8 B) 7 C) 252 D) none of them

435) $4 + (y + 7) = 13$; {2, 3, 4} 435) _____
 A) 2 and 4 B) 2 C) 4 D) 3

436) $7n + n = 64$; {8, 9, 512} 436) _____
 A) 512 B) 9 C) 8 and 9 D) 8

437) $5r + 8 = 28$; {2, 4, 15} 437) _____
 A) 15 B) 4 C) 2 D) none of them

438) $6n - 7 = 11$; {3, 8, 16} 438) _____
 A) 16 B) 8 C) 3 D) none of them

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

439) The total of 145 and a number 439) _____
 A) $145 - x$ B) 145 C) $145x$ D) $145 + x$

440) The sum of a number and 100 440) _____
 A) 100 B) $x + 100$ C) $x - 100$ D) $100x$

441) 5 times a number 441) _____
 A) $5 + x$ B) $5 - x$ C) $5x$ D) $\frac{5}{x}$

- 442) 21 less a number 442) _____
 A) $\frac{21}{x}$ B) $x - 21$ C) $21 - x$ D) $x + 21$
- 443) The product of 6 and a number 443) _____
 A) $6x$ B) $6 - x$ C) $\frac{6}{x}$ D) $6 + x$
- 444) 22 subtracted from a number 444) _____
 A) $22 - x$ B) $x - 22$ C) $22x$ D) 22
- 445) The difference of a number and 78 445) _____
 A) $78x$ B) 78 C) $x - 78$ D) $78 - x$
- 446) 65 decreased by a number 446) _____
 A) $65 + x$ B) $x - 65$ C) $65 - x$ D) $\frac{65}{x}$
- 447) A number divided by 16 447) _____
 A) $x - 16$ B) $\frac{x}{16}$ C) $\frac{16}{x}$ D) $16x$
- 448) The quotient of 56 and a number 448) _____
 A) $x - 56$ B) $\frac{x}{56}$ C) $\frac{56}{x}$ D) $56 - x$
- 449) 6 decreased by 5 times a number 449) _____
 A) $5 - 6x$ B) $5x - 6$ C) $6x - 5$ D) $6 - 5x$
- 450) 9 less than 7 times a number 450) _____
 A) $7x - 9$ B) $9x - 7$ C) $7 - 9x$ D) $9 - 7x$
- 451) 9 more than 8 times a number 451) _____
 A) $8x + 9$ B) $9x + 8$ C) $8(9 + x)$ D) $17x$
- 452) The quotient of a number and 3, decreased by 5 452) _____
 A) $\frac{3}{x - 5}$ B) $\frac{x}{3} - 5$ C) $\frac{3}{x} - 5$ D) $\frac{x - 5}{3}$

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, . . . 453) _____
 A) digits B) factor C) whole numbers D) place value

- 454) The _____ of a polygon is its distance around or the sum of the lengths of its sides. 454) _____
 A) product B) perimeter C) area D) place value
- 455) The position of each digit in a number determines its _____. 455) _____
 A) place value B) factor C) divisor D) digits
- 456) A(n) _____ is a shorthand notation for repeated multiplication of the same factor. 456) _____
 A) equation B) area C) expression D) exponent
- 457) To find the _____ of a rectangle, multiply length times width. 457) _____
 A) perimeter B) solution C) area D) product
- 458) The _____ used to write numbers are 0, 1, 2, 3, 4, 5, 6, 7, 8, and 9. 458) _____
 A) dividend B) digits C) divisor D) difference
- 459) A letter used to represent a number is called a(n) _____. 459) _____
 A) addend B) variable C) solution D) place value
- 460) A(n) _____ can be written in the form "expression = expression." 460) _____
 A) area B) addend C) exponent D) equation
- 461) A combination of operations on variables and numbers is called a(n) _____. 461) _____
 A) exponent B) expression C) addend D) equation
- 462) A(n) _____ of an equation is a value of the variable that makes the equation a true statement. 462) _____
 A) sum B) set C) expression D) solution
- 463) A collection of numbers (or objects) enclosed by braces is called a(n) _____. 463) _____
 A) quotient B) subtrahend C) solution D) set
- 464) Use the facts below. 464) _____
- $2 \cdot 3 = 6$ $4 + 17 = 21$ $20 - 9 = 11$ $\begin{array}{r} 7 \\ 5 \overline{) 35} \end{array}$
- The 21 above is called the _____.
 A) addend B) sum C) product D) quotient
- 465) Use the facts below. 465) _____
- $2 \cdot 3 = 6$ $4 + 17 = 21$ $20 - 9 = 11$ $\begin{array}{r} 7 \\ 5 \overline{) 35} \end{array}$
- The 5 above is called the _____.
 A) dividend B) quotient C) factor D) divisor

466) Use the facts below.

$2 \cdot 3 = 6$

$4 + 17 = 21$

$20 - 9 = 11$

$$\begin{array}{r} 7 \\ 5 \overline{)35} \end{array}$$

466) _____

The 35 above is called the _____.

A) minuend

B) quotient

C) dividend

D) divisor

467) Use the facts below.

$2 \cdot 3 = 6$

$4 + 17 = 21$

$20 - 9 = 11$

$$\begin{array}{r} 7 \\ 5 \overline{)35} \end{array}$$

467) _____

The 7 above is called the _____.

A) subtrahend

B) divisor

C) dividend

D) quotient

468) Use the facts below.

$2 \cdot 3 = 6$

$4 + 17 = 21$

$20 - 9 = 11$

$$\begin{array}{r} 7 \\ 5 \overline{)35} \end{array}$$

468) _____

The 3 above is called a(n) _____.

A) addend

B) factor

C) divisor

D) dividend

469) Use the facts below.

$2 \cdot 3 = 6$

$4 + 17 = 21$

$20 - 9 = 11$

$$\begin{array}{r} 7 \\ 5 \overline{)35} \end{array}$$

469) _____

The 6 above is called the _____.

A) product

B) sum

C) dividend

D) factor

470) Use the facts below.

$2 \cdot 3 = 6$

$4 + 17 = 21$

$20 - 9 = 11$

$$\begin{array}{r} 7 \\ 5 \overline{)35} \end{array}$$

470) _____

The 20 above is called the _____.

A) dividend

B) difference

C) subtrahend

D) minuend

471) Use the facts below.

$2 \cdot 3 = 6$

$4 + 17 = 21$

$20 - 9 = 11$

$$\begin{array}{r} 7 \\ 5 \overline{)35} \end{array}$$

471) _____

The 9 above is called the _____.

A) difference

B) minuend

C) addend

D) subtrahend

472) Use the facts below.

$2 \cdot 3 = 6$

$4 + 17 = 21$

$20 - 9 = 11$

$$\begin{array}{r} 7 \\ 5 \overline{)35} \end{array}$$

472) _____

The 11 above is called the _____.

A) minuend

B) quotient

C) difference

D) subtrahend

473) Use the facts below.

$$2 \cdot 3 = 6$$

$$4 + 17 = 21$$

$$20 - 9 = 11$$

$$\begin{array}{r} 7 \\ 5 \overline{)35} \end{array}$$

473) _____

The 4 above is called a(n) _____.

A) addend

B) factor

C) sum

D) subtrahend

Provide an appropriate response.

474) Write 75,445 in words.

A) seventy-five thousand, forty-four hundred, five

B) seventy thousand, four hundred forty-five

C) seven thousand, four hundred forty-five

D) seventy-five thousand, four hundred forty-five

474) _____

475) Write "three hundred seven thousand, two hundred ninety-nine" in standard form.

A) 307,299

B) 370,299

C) 3,007,299

D) 37,299

475) _____

Simplify.

476) $64 + 19$

A) 84

B) 73

C) 82

D) 83

476) _____

477) $401 - 295$

A) 106

B) 216

C) 116

D) 107

477) _____

478)

$$\begin{array}{r} 565 \\ \times 40 \\ \hline \end{array}$$

A) 22,600

B) 32,600

C) 21,600

D) 23,600

478) _____

479) $21,195 \div 31$

A) 683

B) 683 R 17

C) 22

D) 683 R 22

479) _____

480) $2^3 \cdot 7^2$

A) 384

B) 392

C) 256

D) 128

480) _____

481) $15 \div 1$

A) 0

B) 1

C) undefined

D) 15

481) _____

482) $0 \div 99$

A) 0

B) undefined

C) 99

D) 1

482) _____

483) $35 \div 0$

A) undefined

B) 1

C) 35

D) 0

483) _____

484) $(10^2 - 3) \cdot 4$

A) 88

B) 388

C) 280

D) 196

484) _____

485) $8 + 16 \div 4 \cdot 2 - 3$ 485) _____
 A) 9 B) 13 C) 19 D) 29

486) $2^1 \cdot 5^3$ 486) _____
 A) 250 B) 127 C) 30 D) 1,000

487) $4[(8 - 5)^2 + (17 - 16)^2] + 13$ 487) _____
 A) 4 B) 92 C) 27 D) 53

488) $6,531 \cdot 10$ 488) _____
 A) 653,110 B) 65,310 C) 6,531,100 D) 653,100

Provide an appropriate response.

489) Find the average of 49, 43, 35, 39, and 49. 489) _____
 A) 42 B) 35 C) 49 D) 43

490) Round 65,884 to the nearest thousand. 490) _____
 A) 65,000 B) 65,800 C) 66,000 D) 65,900

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

491) $5,804 + 7,824 + 3,638$ 491) _____
 A) 16,000 B) 17,200 C) 17,300 D) 18,000

492) $7,966 - 2,847$ 492) _____
 A) 5,000 B) 5,119 C) 5,100 D) 5,200

Solve.

493) Subtract 77 from 813. 493) _____
 A) 890 B) 736 C) 636 D) 730

494) Find the sum of 40 and 201. 494) _____
 A) 161 B) 241 C) 8,040 D) 482

495) Find the product of 16 and 708. 495) _____
 A) 1,248 B) 11,328 C) 11,320 D) 11,336

496) Find the quotient of 123 and 13. 496) _____
 A) 10 R 6 B) 9 R 7 C) 9 R 6 D) 8 R 8

497) Amy teaches Chinese lessons for \$95 per student for a 6-week session. From one group of students, she collects \$2,850. How many students are in the group? 497) _____
 A) 32 students B) 20 students C) 34 students D) 30 students

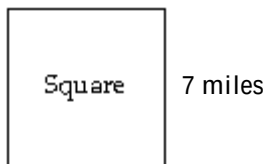
498) Last year, Lu Yi's tax refund was \$493. This year it was \$726. How much more was this year's refund than last year's refund? 498) _____
 A) \$133 B) \$227 C) \$1,219 D) \$233

499) The seats in a lecture hall are arranged in 17 rows with 8 seats in each row. How many seats are in this lecture hall? 499) _____
 A) 128 seats B) 144 seats C) 136 seats D) 146 seats

500) In preparation for his new job, Kevin bought two suits at \$154 a piece, five shirts at \$29 a piece, two pairs of shoes at \$74 a piece, and four ties at \$29 a piece. What was the total cost of these items? 500) _____
 A) \$290 B) \$737 C) \$762 D) \$717

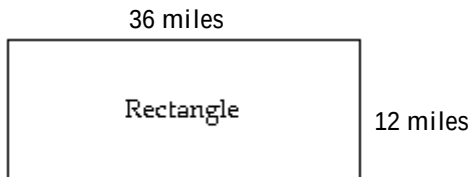
Find the perimeter and the area of the figure.

501) 501) _____



- A) perimeter: 28 mi; area: 49 sq mi B) perimeter: 14 mi; area: 49 sq mi
 C) perimeter: 28 mi; area: 196 sq mi D) perimeter: 49 mi; area: 28 sq mi

502) 502) _____



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

Provide an appropriate response.

503) Evaluate $9 + (x^3 - 4)$ for $x = 5$. 503) _____
 A) 130 B) 112 C) 30 D) 120

504) Evaluate $\frac{6x + 8y}{2}$ for $x = 5$ and $y = 4$. 504) _____
 A) 31 B) 1 C) 32 D) 62

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

505) The quotient of a number and 4 505) _____
 A) $\frac{x}{4}$ B) $x - 4$ C) $\frac{4}{x}$ D) $4x$

506) 7 times a number, decreased by 3 506) _____
 A) $3 - 7x$ B) $7x - 3$ C) $3x - 7$ D) $7 - 3x$

Provide an appropriate response.

507) Is 6 a solution of the equation $7x - 3 = 39$? 507) _____
 A) yes B) no

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

$$5x - 5 = 23 - 2x; \{0, 4, 10\}$$

A) 0

B) none of them

C) 10

D) 4

508) _____

Answer Key

Testname: UNTITLED2

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

Answer Key

Testname: UNTITLED2

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

Answer Key

Testname: UNTITLED2

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

Answer Key

Testname: UNTITLED2

151) D

152) B

153) B

154) A

155) D

156) C

157) D

158) C

159) A

160) D

161) B

162) C

163) D

164) D

165)

14,821

- 4490

10,331

166) D

167) A

168) C

169) A

170) A

171) A

172) C

173) A

174) C

175) B

176) A

177) A

178) A

179) B

180) B

181) A

182) B

183) C

184) B

185) B

186) C

187) D

188) B

189) B

190) D

191) C

192) D

193) D

194) A

195) A

196) B

197) A

Answer Key

Testname: UNTITLED2

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

Answer Key

Testname: UNTITLED2

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

Answer Key

Testname: UNTITLED2

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

Answer Key

Testname: UNTITLED2

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

Answer Key

Testname: UNTITLED2

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

Answer Key

Testname: UNTITLED2

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

Answer Key

Testname: UNTITLED2

498) D

499) C

500) D

501) A

502) A

503) A

504) A

505) A

506) B

507) A

508) D