

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) Do your homework B) Check your work
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) Exchange names and phone numbers with at least one other person in class.
B) Know how to get help if you need it.
C) Hand in assignments on time.
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 test B) Highlights
C) Vocabulary checks D) Calculator exercises
- 4) Which of these is listed as one of several steps in preparing for an exam? 4) _____
A) Practice exercises by working the chapter review.
B) Skip over the chapter Highlights.
C) Leave for the exam as late as possible to increase your amount of study time.
D) Use your notes, previous assignments, and text the entire time you are studying.

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

- 5) 2530 5) _____
A) Hundreds B) Tens C) Thousands D) Ones
- 6) 30,542 6) _____
A) Hundred -thousands B) Ten -thousands
C) Tens D) Thousands
- 7) 25,304,168 7) _____
A) Hundred -thousands B) Ten -thousands
C) Hundreds D) Thousands
- 8) 30,500,421 8) _____
A) Millions B) Tens C) Ten -thousands D) Ten -millions
- 9) 1392 9) _____
A) Tens B) Hundreds C) Ones D) Thousands
- 10) 403,681,295 10) _____
A) Hundred -thousands B) Hundred -millions
C) Millions D) Thousands

11) 463,981 11) _____
 A) Hundred -thousands B) Ten -thousands
 C) Thousands D) Hundreds

12) 45,271,903 12) _____
 A) Ones B) Tens C) Hundreds D) Ten -millions

Solve.

13) Write the largest four -digit number that can be made from the digits 7, 3, 8, and 1 if each digit must be used once. 13) _____
 A) 8713 B) 7831 C) 1378 D) 8731

Write the whole number in words.

14) 135,060 14) _____
 A) Thirteen thousand, five hundred six B) Thirteen thousand, five hundred sixty
 C) One hundred thirty -five thousand, sixty D) One million, thirty -five thousand, sixty

15) 9,300,695 15) _____
 A) Nine million, three hundred thousand, six hundred ninety -five
 B) Ninety -three thousand, six hundred ninety -five
 C) Nine million, three thousand, six hundred ninety -five
 D) Nine million, thirty thousand, six hundred ninety -five

16) 22,000,674 16) _____
 A) Twenty -two million, six thousand seventy -four
 B) Two million, two thousand, six hundred seventy -four
 C) Twenty -two million, six hundred seventy -four
 D) Twenty -two hundred million, six hundred seventy -four

17) 64,568,009 17) _____
 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 thousand, sixty -eight hundred, nine
 D) Sixty -four million, five hundred sixty -eight thousand, nine

18) 235,060 18) _____
 A) Twenty -three thousand, five hundred six
 B) Twenty -three thousand, five hundred sixty
 C) Two hundred thirty -five thousand, sixty
 D) Two million, thirty -five thousand, sixty

19) 4,200,091 19) _____
 A) Four million, twenty thousand, ninety -one
 B) Four million, two hundred ninety -one
 C) Forty -two thousand, ninety -one
 D) Four million, two hundred thousand, ninety -one

20) 3072
 A) Thirty thousand, seventy-two
 C) Three thousand, seventy-two
 B) Three hundred thousand, seventy-two
 D) Three million, seventy-two
 20) _____

21) 70,146
 A) Seven million, one thousand, forty-six
 C) Seven thousand, one hundred forty-six
 B) Seven hundred one thousand, forty-six
 D) Seventy thousand, one hundred forty-six
 21) _____

22) Jennilee has 30,000 frequent flier miles.
 A) Thirty million
 C) Thirty thousand
 B) Three thousand
 D) Three hundred thousand
 22) _____

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

Write the whole number in standard form.

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

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

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

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

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

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

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

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

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

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

Write the whole number in expanded form.

- 34) 692 34) _____
 A) $6000 + 900 + 20$ B) $200 + 90 + 6$ C) $600 + 90 + 2$ D) 69,200
- 35) 8973 35) _____
 A) 8,973,000 B) $8000 + 900 + 70 + 3$
 C) $800 + 70 + 9$ D) $3000 + 700 + 90 + 8$
- 36) 65,824 36) _____
 A) $40,000 + 2000 + 800 + 50 + 6$ B) $6000 + 500 + 80 + 24$
 C) 65,824 D) $60,000 + 5000 + 800 + 20 + 4$
- 37) 20,700 37) _____
 A) $20,000 + 700$ B) $20,000 + 7000$ C) $2000 + 700$ D) 2,700,000
- 38) 8040 38) _____
 A) $800 + 4$ B) $8000 + 40$ C) 804,000 D) $80,000 + 4000$
- 39) 50,430 39) _____
 A) $50,000 + 4000 + 30$ B) $5000 + 40 + 3$
 C) $5000 + 400 + 3$ D) $50,000 + 400 + 30$
- 40) 32,501,002 40) _____
 A) $30,000,000 + 2,000,000 + 500,000 + 1000 + 2$
 B) $30,000,000 + 200,000 + 50,000 + 1000 + 2$
 C) $32,000,000 + 501,000 + 2$
 D) $30,000,000 + 2,000,000 + 500,000 + 100 + 2$

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

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

- 41) Write in words the number of votes received by Mr. Olsen. 41) _____
 A) two thousand, seventy-eight B) twenty thousand, seventy-eight
 C) two thousand, seven hundred eight D) two thousand, seven hundred eighty
- 42) Write in words the number of votes received by Ms. Li. 42) _____
 A) thirty-seven thousand, sixty B) three thousand, seventy-six
 C) three thousand, seven hundred sixty D) three hundred seventy-six
- 43) Write the number of votes received by Mr. Barone in expanded form. 43) _____
 A) $2700 + 80$ B) $2000 + 700 + 8$ C) $2000 + 700 + 80$ D) $2000 + 70 + 8$
- 44) Write the number of votes received by Ms. Vaporis in expanded form. 44) _____
 A) $3000 + 700 + 6$ B) $3700 + 6$ C) $3000 + 70 + 6$ D) $300 + 70 + 6$

45) Who won the election?

A) Mr. Barone

B) Ms. Vaporis

C) Mr. Olsen

D) Ms. Li

45) _____

Add.

46)

$$\begin{array}{r} 26 \\ + 35 \\ \hline \end{array}$$

A) 51

B) 62

C) 61

D) 60

46) _____

47)

$$\begin{array}{r} 32 \\ 13 \\ + 13 \\ \hline \end{array}$$

A) 94

B) 85

C) 67

D) 58

47) _____

48)

$$\begin{array}{r} 2 \\ 4 \\ 5 \\ 6 \\ + 5 \\ \hline \end{array}$$

A) 25

B) 23

C) 22

D) 20

48) _____

49) $14 + 11 + 13$

A) 56

B) 83

C) 65

D) 38

49) _____

50) $35 + 77$

A) 112

B) 111

C) 113

D) 102

50) _____

51)

$$\begin{array}{r} 39 \\ 69 \\ 7 \\ 13 \\ + 27 \\ \hline \end{array}$$

A) 155

B) 178

C) 218

D) 165

51) _____

52)

$$\begin{array}{r} 962 \\ + 449 \\ \hline \end{array}$$

A) 1411

B) 1522

C) 1421

D) 1501

52) _____

53) $864 + 654$

A) 1420

B) 1518

C) 1418

D) 1320

53) _____

54) $5368 + 2269$

A) 7637

B) 829

C) 927

D) 930

54) _____

55) $7080 + 649 + 76 + 4696$

A) 12,391

B) 12,501

C) 11,491

D) 11,401

55) _____

56)

$$\begin{array}{r} 8419 \\ + 6192 \\ \hline \end{array}$$

A) 522

B) 421

C) 501

D) 14,611

56) _____

57)

$$\begin{array}{r} 6555 \\ 155 \\ 44 \\ + 9052 \\ \hline \end{array}$$

A) 14,706

B) 15,806

C) 15,696

D) 14,796

57) _____

58)

$$\begin{array}{r} 69 \\ 725 \\ 4683 \\ + 16123 \\ \hline \end{array}$$

A) 21,500

B) 20,600

C) 21,600

D) 21,580

58) _____

59)

$$\begin{array}{r} 3486 \\ 860 \\ 46 \\ 5002 \\ + 4634 \\ \hline \end{array}$$

A) 13,918

B) 13,018

C) 14,028

D) 12,928

59) _____

60)

$$\begin{array}{r} 325,717 \\ 36,909 \\ + 6,568,383 \\ \hline \end{array}$$

A) 6,931,009

B) 7,931,009

C) 6,931,019

D) 6,941,009

60) _____

61)

$$\begin{array}{r} 6,496,751 \\ 4,192,626 \\ + 5,065,945 \\ \hline \end{array}$$

A) 15,855,322

B) 15,755,422

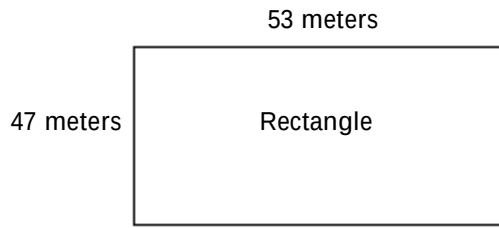
C) 15,755,322

D) 15,754,322

61) _____

Find the perimeter.

62)



62) _____

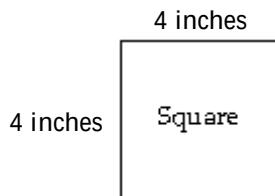
A) 100 meters

B) 153 meters

C) 2491 meters

D) 200 meters

63)



63) _____

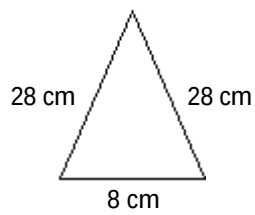
A) 8 in.

B) 12 in.

C) 20 in.

D) 16 in.

64)



64) _____

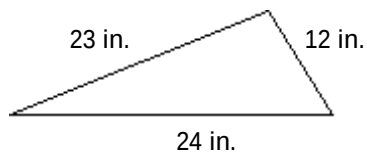
A) 64 cm

B) 56 cm

C) 112 cm

D) 62 cm

65)



65) _____

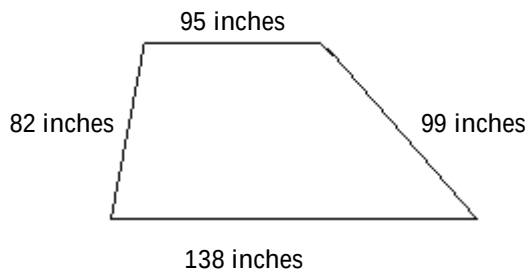
A) 47 in.

B) 58 in.

C) 144 in.

D) 59 in.

66)



66) _____

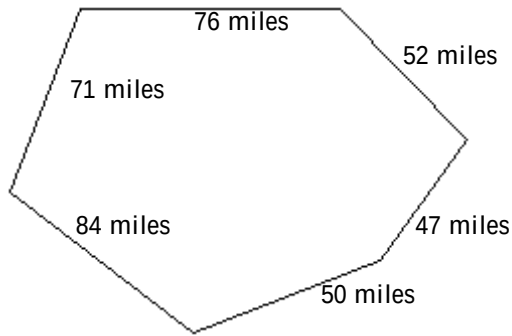
A) 362 in.

B) 414 in.

C) 319 in.

D) 388 in.

67)



A) 380 mi

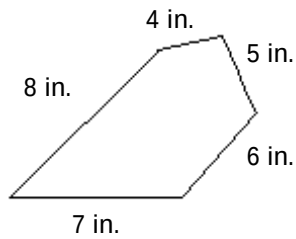
B) 400 mi

C) 456 mi

D) 309 mi

67) _____

68)



A) 24 in.

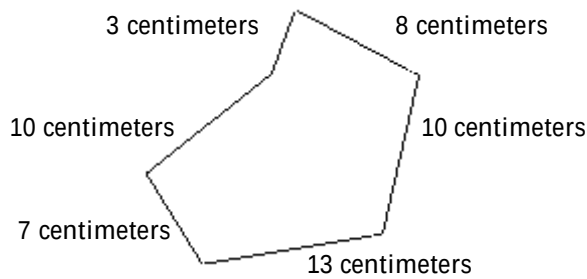
B) 30 in.

C) 22 in.

D) 23 in.

68) _____

69)



A) 45 cm

B) 51 cm

C) 58 cm

D) 41 cm

69) _____

Solve.

70) Find the sum of 527 and 1241.

A) 1769

B) 1868

C) 1768

D) 1758

70) _____

71) Find the total of 98, 48, 3, 12, and 337.

A) 400

B) 161

C) 495

D) 498

71) _____

72) What is 747 increased by 75?

A) 821

B) 812

C) 832

D) 822

72) _____

73) What is 3189 plus 504 plus 30?

A) 3723

B) 3733

C) 3696

D) 3623

73) _____

74) Last year a company had 5863 employees. This year the number of employees increased by 1386. How many employees does the company have now? 74) _____
 A) 7349 employees B) 7259 employees
 C) 7149 employees D) 7249 employees

75) A town's population was 121,640. During the last twenty years, the population has increased by 28,372. What is the current population? 75) _____
 A) 150,112 people B) 149,012 people C) 150,012 people D) 151,012 people

76) Carlos is installing an invisible fence in his back yard which measures 116 feet by 65 feet by 86 feet by 98 feet. How many feet of wiring is needed to enclose his yard? 76) _____
 A) 385 feet B) 375 feet C) 365 feet D) 355 feet

77) A store sold 35 TVs on Monday, 17 TVs on Tuesday, and 28 TVs on Wednesday. How many TVs did the store sell in all? 77) _____
 A) 80 TVs B) 79 TVs C) 81 TVs D) 90 TVs

78) Megan went shopping for holiday presents for her family. She spent \$158 on Monday, \$128 on Tuesday, and \$358 on Wednesday. What is the total amount of money that she spent on gifts? 78) _____
 A) \$754 B) \$654 C) \$544 D) \$644

79) An election for student body president was held over 3 days. On the first day Ben received 326 votes and Bonnie received 318 votes. On the second day Ben received 383 votes and Bonnie received 197 votes. On the third day Ben received 390 votes and Bonnie received 165 votes. How many votes did Bonnie receive? 79) _____
 A) 1099 B) 970 C) 745 D) 680

80) It is 83 miles from Franklin to Archer. It is 92 miles from Archer to Fontana. Driving directly, it is 153 miles directly from Franklin to Fontana. It is 27 miles from Fontana to Ridgeport. If Juan drives from Franklin to Archer, then from Archer to Fontana, and finally home to Franklin, how many miles does he drive? 80) _____
 A) 263 B) 355 C) 338 D) 328

Subtract. Check by adding.

81) 96 81) _____
 - 51
 A) 125 B) 43 C) 147 D) 45

82) 77 82) _____
 - 54
 A) 23 B) 33 C) 15 D) 131

83)

$$\begin{array}{r} 686 \\ - 442 \\ \hline \end{array}$$

A) 240

B) 144

C) 244

D) 1128

83) _____

84) 656 - 11

A) 643

B) 545

C) 667

D) 645

84) _____

85) 8599 - 543

A) 56

B) 8050

C) 8056

D) 7970

85) _____

86)

$$\begin{array}{r} 6657 \\ - 2232 \\ \hline \end{array}$$

A) 6425

B) 4421

C) 4361

D) 4425

86) _____

87)

$$\begin{array}{r} 7695 \\ - 5412 \\ \hline \end{array}$$

A) 7283

B) 2283

C) 2279

D) 2259

87) _____

88)

$$\begin{array}{r} 95 \\ - 58 \\ \hline \end{array}$$

A) 153

B) 57

C) 37

D) 27

88) _____

89)

$$\begin{array}{r} 91 \\ - 49 \\ \hline \end{array}$$

A) 52

B) 42

C) 140

D) 40

89) _____

90)

$$\begin{array}{r} 515 \\ - 95 \\ \hline \end{array}$$

A) 610

B) 420

C) 320

D) 410

90) _____

91)

$$\begin{array}{r} 917 \\ - 195 \\ \hline \end{array}$$

A) 622

B) 722

C) 1112

D) 712

91) _____

- 92)
$$\begin{array}{r} 4862 \\ - 715 \\ \hline \end{array}$$
 92) _____
- A) 4147 B) 147 C) 4123 D) 4143
- 93)
$$\begin{array}{r} 8815 \\ - 2595 \\ \hline \end{array}$$
 93) _____
- A) 6210 B) 8220 C) 6220 D) 6190
- 94)
$$\begin{array}{r} 8298 \\ - 3712 \\ \hline \end{array}$$
 94) _____
- A) 4582 B) 4562 C) 4586 D) 7586
- 95)
$$\begin{array}{r} 53,435 \\ - 6775 \\ \hline \end{array}$$
 95) _____
- A) 46,650 B) 52,660 C) 46,590 D) 46,660
- 96)
$$\begin{array}{r} 6030 \\ - 2791 \\ \hline \end{array}$$
 96) _____
- A) 4761 B) 4349 C) 5749 D) 3239
- 97)
$$\begin{array}{r} 85,258 \\ - 36,683 \\ \hline \end{array}$$
 97) _____
- A) 48,569 B) 48,469 C) 54,575 D) 48,575
- 98)
$$\begin{array}{r} 80,000 \\ - 37,284 \\ \hline \end{array}$$
 98) _____
- A) 106,046 B) 57,284 C) 42,716 D) 107,284
- 99) 63,216 - 58,855 99) _____
A) 12,361 B) 4331 C) 4351 D) 4361
- 100) 80,000 - 46,686 100) _____
A) 46,686 B) 117,754 C) 116,686 D) 33,314

101) 7020 - 3362

A) 5368

B) 3658

C) 4342

D) 4768

101) _____

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

Solve.

102) Fill in the missing digits in the problem.

102) _____

$$\begin{array}{r} 2_ , 3_ 1 \\ - 219_ \\ \hline 22,1_ 1 \end{array}$$

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

103) Subtract 8 from 77.

A) 68

B) 69

C) 70

D) 79

103) _____

104) Find the difference of 41 and 3.

A) 37

B) 48

C) 39

D) 38

104) _____

105) Subtract 38 from 85.

A) 127

B) 37

C) 47

D) 123

105) _____

106) Find 932 less 66.

A) 998

B) 866

C) 766

D) 862

106) _____

107) Find 38 subtracted from 64.

A) 102

B) 18

C) 26

D) 36

107) _____

108) Paula has a total of \$2004 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) \$777

B) \$1227

C) \$767

D) \$776

108) _____

109) Rhonda is trading her car in on a new car. The new car costs \$25,025. Her car is worth \$6998. How much more money does she need to buy the new car?

A) \$18,027

B) \$17,927

C) \$18,017

D) \$18,028

109) _____

110) The population of Graham County is 1,069,733. The population of Broselow County is 267,979. The population of Cameron County is 205,256. How much greater is the population of Graham County than Cameron County?

A) 864,577

B) 864,477

C) 800,754

D) 801,754

110) _____

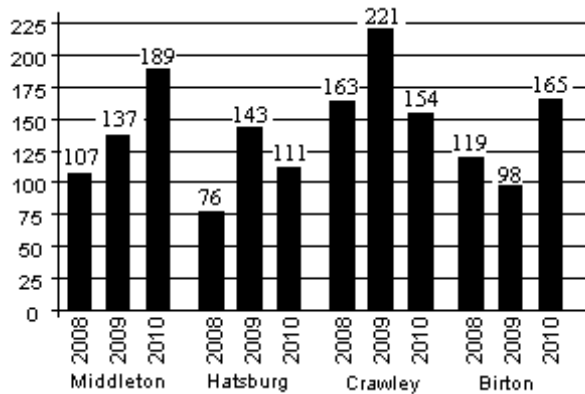
111) Population of Four States from 1970 to 2010 111) _____

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

How much did the population of State B increase from 1970 to 1990?

- A) 381,218 B) 1,438,850 C) 380,218 D) 1,437,850

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



What was the increase in the number of new residents in Middleton from 2009 to 2010?

- A) 40 B) 52 C) 30 D) 54

113) A stock worth \$202 per share on July 12 dropped to \$74 per share on July 31 of the same year. Find how much it lost in value from July 12th to the 31st. 113) _____

- A) \$138 B) \$128 C) \$129 D) \$132

114) Claire is reading a 401-page book. If she has just finished reading page 177, how many more pages must she read to finish the book? 114) _____

- A) 225 pages B) 334 pages C) 224 pages D) 234 pages

115) A camera that sells regularly for \$370 is discounted by \$69 in a sale. What is the sale price? 115) _____

- A) \$69 B) \$301 C) \$439 D) \$311

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

- A) no; 792,310 B) yes

Round the whole number to the given place value.

117) 557 to the nearest ten 117) _____

- A) 660 B) 560 C) 570 D) 550

- 118) 33,912 to the nearest hundred
 A) 34,000 B) 33,800 C) 33,910 D) 33,900 118) _____
- 119) 2159 to the nearest thousand
 A) 2100 B) 3000 C) 2000 D) 1900 119) _____
- 120) 65,204 to the nearest thousand
 A) 65,100 B) 66,000 C) 65,000 D) 75,000 120) _____
- 121) 697,658 to the nearest ten thousand
 A) 690,000 B) 800,000 C) 700,000 D) 697,000 121) _____
- 122) 18,666,265 to the nearest million
 A) 18,666,000 B) 18,000,000 C) 18,700,000 D) 19,000,000 122) _____
- 123) 32,998 to the nearest ten
 A) 32,990 B) 33,000 C) 32,000 D) 32,900 123) _____
- 124) 9,999,995 to the nearest ten
 A) 100,000,000 B) 9,999,990 C) 10,000,090 D) 10,000,000 124) _____
- 125) A company spent \$693,749,461 on advertising. Round the advertising figure to the nearest hundred-thousand.
 A) 693,700,000 B) 600,000,000 C) 700,000,000 D) 693,800,000 125) _____
- 126) A publishing company sold 26,267,591 books. Round the number of books sold to the nearest ten-million.
 A) 20,000,000 B) 30,000,000 C) 26,000,000 D) 26,270,000 126) _____

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

- 127) 6405 127) _____
- | | | | |
|----------|------|----------|------|
| A) Ten | 6410 | B) Ten | 6410 |
| Hundred | 6500 | Hundred | 6400 |
| Thousand | 6000 | Thousand | 6000 |
| C) Ten | 6400 | D) Ten | 6400 |
| Hundred | 6500 | Hundred | 6400 |
| Thousand | 7000 | Thousand | 6000 |
- 128) 9671 128) _____
- | | | | |
|----------|--------|----------|--------|
| A) Ten | 9670 | B) Ten | 9670 |
| Hundred | 9600 | Hundred | 9700 |
| Thousand | 10,000 | Thousand | 10,000 |
| C) Ten | 9680 | D) Ten | 9680 |
| Hundred | 9600 | Hundred | 9700 |
| Thousand | 9000 | Thousand | 10,000 |

129) 7271

- A) Ten 7270
Hundred 7200
Thousand 7000
C) Ten 7280
Hundred 7200
Thousand 8000

- B) Ten 7270
Hundred 7300
Thousand 7000
D) Ten 7280
Hundred 7300
Thousand 7000

129) _____

130) 3288

- A) Ten 3290
Hundred 3200
Thousand 3000
C) Ten 3290
Hundred 3300
Thousand 3000

- B) Ten 3280
Hundred 3300
Thousand 3000
D) Ten 3280
Hundred 3200
Thousand 4000

130) _____

131) 49,982

- A) Ten 49,980
Hundred 50,000
Thousand 50,000
C) Ten 49,990
Hundred 50,000
Thousand 50,000

- B) Ten 49,990
Hundred 49,900
Thousand 49,000
D) Ten 49,980
Hundred 49,990
Thousand 49,000

131) _____

132) 70,255

- A) Ten 70,260
Hundred 70,300
Thousand 70,000
C) Ten 70,250
Hundred 70,200
Thousand 71,000

- B) Ten 70,260
Hundred 70,250
Thousand 71,000
D) Ten 70,250
Hundred 70,300
Thousand 70,270

132) _____

Solve.

133) A number rounded to the nearest hundred is 6800. Determine the largest possible number.

- A) 6751 B) 6848 C) 6849 D) 6850

133) _____

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

134)

$$\begin{array}{r} 31 \\ 84 \\ 17 \\ 13 \\ + 33 \\ \hline \end{array}$$

- A) 200 B) 180 C) 178 D) 170

134) _____

135)

$$\begin{array}{r} 86 \\ - 72 \\ \hline \end{array}$$

- A) 20 B) 14 C) 160 D) 10

135) _____

136)

$$\begin{array}{r} 44 \\ + 94 \\ \hline \end{array}$$

A) 130

B) 140

C) 100

D) 138

136) _____

137)

$$\begin{array}{r} 7346 \\ - 4934 \\ \hline \end{array}$$

A) 2400

B) 2412

C) 2420

D) 2410

137) _____

138)

$$\begin{array}{r} 783 \\ - 27 \\ \hline \end{array}$$

A) 756

B) 800

C) 750

D) 760

138) _____

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

139)

$$\begin{array}{r} 980 \\ 347 \\ 413 \\ 585 \\ + 547 \\ \hline \end{array}$$

A) 2800

B) 2900

C) 2870

D) 2872

139) _____

140)

$$\begin{array}{r} 280 \\ - 142 \\ \hline \end{array}$$

A) 200

B) 100

C) 400

D) 138

140) _____

141)

$$\begin{array}{r} 9657 \\ + 5068 \\ \hline \end{array}$$

A) 14,700

B) 14,800

C) 14,725

D) 15,000

141) _____

142)

$$\begin{array}{r} 470 \\ 534 \\ 350 \\ 779 \\ + 380 \\ \hline \end{array}$$

A) 2513

B) 2510

C) 2600

D) 2500

142) _____

143)

$$\begin{array}{r} 744 \\ - 553 \\ \hline \end{array}$$

A) 1300

B) 100

C) 200

D) 191

143) _____

144)

$$\begin{array}{r} 9869 \\ - 3641 \\ \hline \end{array}$$

A) 6228

B) 6300

C) 6000

D) 6200

144) _____

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

145)

$$\begin{array}{r} 229 \\ 398 \\ 676 \\ + 783 \\ \hline 2086 \end{array}$$

A) Correct. Estimate: 2100

C) Incorrect. Estimate: 2200

B) Incorrect. Estimate: 2000

D) Incorrect. Estimate: 2300

145) _____

146)

$$\begin{array}{r} 629 \\ 471 \\ 294 \\ + 449 \\ \hline 2043 \end{array}$$

A) Incorrect. Estimate: 1900

C) Incorrect. Estimate: 1600

B) Incorrect. Estimate: 1800

D) Incorrect. Estimate: 2000

146) _____

147)

$$\begin{array}{r} 718,134 \\ - 176,738 \\ \hline 541,396 \end{array}$$

A) Correct. Estimate: 500,000

C) Incorrect. Estimate: 300,000

B) Incorrect. Estimate: 600,000

D) Incorrect. Estimate: 400,000

147) _____

148)

$$\begin{array}{r} 788,417 \\ - 317,365 \\ \hline 371,052 \end{array}$$

A) Incorrect. Estimate: 400,000

C) Incorrect. Estimate: 500,000

B) Incorrect. Estimate: 600,000

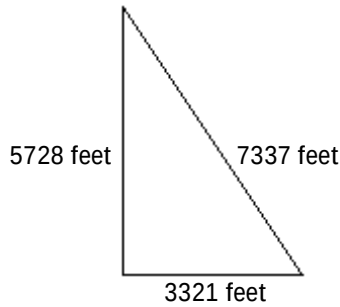
D) Correct. Estimate: 700,000

148) _____

Solve.

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

149) _____



- A) 9,511,300 feet B) 16,300 feet C) 8200 feet D) 16,400 feet

Solve the problem by estimating.

- 150) Andy wants to buy a refrigerator for \$999, a stove for \$659, and a dishwasher for \$449. Round each cost to the nearest hundred to estimate the total cost.

150) _____

- A) \$2100 B) \$1900 C) \$2200 D) \$2000

- 151) The population of Capital City is 7,695,831 and the population of Spring City is 4,032,652. Round each population to the nearest hundred - thousand to estimate how much larger Capital City is than Spring City.

151) _____

- A) 3,700,000 B) 3,800,000 C) 3,600,000 D) 3,663,000

- 152) Linda scored 82, 85, 60, 98, 84, and 100 on her calculus tests. Round each score to the nearest ten to estimate her total score.

152) _____

- A) 490 B) 510 C) 500 D) 520

- 153) The Pan family took a trip and traveled 565, 349, 739, 598, and 360 miles on 5 consecutive days. Round each distance to the nearest hundred and estimate the distance they traveled.

153) _____

- A) 2500 miles B) 2800 miles C) 2700 miles D) 2600 miles

- 154) A local sandwich shop sells 193 sandwiches on an average day. Estimate how many sandwiches they sold in the last 236 days. Round the number of sandwiches and the number of days to the nearest ten.

154) _____

- A) 45,700 B) 456,000 C) 457,000 D) 45,600

- 155) Juan travelled for 6 weeks in South America last year and spent \$3179 while he was there. Estimate the average amount he spent each day. Round the number of days to the nearest ten and the amount of money spent to the nearest hundred.

155) _____

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

- 156) As part of her preparation for soccer tryouts, Francine did 73 jumping jacks each day for 68 days. Estimate how many jumping jacks she did during that period. Round the number of jumping jacks and the number of days to the nearest ten.

156) _____

- A) 13,000 B) 4900 C) 1300 D) 49,000

Use the distributive property to rewrite the expression.

- 157) $11(2 + 11)$

157) _____

- A) $11 \cdot 2 + 11$ B) $11 \cdot 2 + 11 \cdot 11$ C) $11 \cdot 2 \cdot 11$ D) $11 + 2 + 11$

- 158) $7(1 + 8)$
 A) $7 \cdot 1 + 8$ B) $7 + 1 + 8$ C) $7 \cdot 1 + 7 \cdot 8$ D) $7 \cdot 1 \cdot 8$ 158) _____
- 159) $49(39 + 44)$
 A) $49 \cdot 39 + 49 \cdot 44$ B) $49 \cdot 83$ C) $49 + 39 + 44$ D) $49 \cdot 39 + 44$ 159) _____
- Multiply.
 160) _____

$$\begin{array}{r} 73 \\ \times 9 \\ \hline \end{array}$$

 A) 757 B) 642 C) 657 D) 637 160) _____
- 161) _____

$$\begin{array}{r} 261 \\ \times 5 \\ \hline \end{array}$$

 A) 1315 B) 1305 C) 1205 D) 1405 161) _____
- 162) _____

$$\begin{array}{r} 2159 \\ \times 2 \\ \hline \end{array}$$

 A) 4218 B) 4418 C) 4318 D) 4328 162) _____
- 163) _____

$$\begin{array}{r} 64,696 \\ \times 9 \\ \hline \end{array}$$

 A) 582,364 B) 582,264 C) 582,254 D) 582,214 163) _____
- 164) 473×8
 A) 3684 B) 3794 C) 3784 D) 3884 164) _____
- 165) 9782×9
 A) 88,048 B) 87,938 C) 88,038 D) 88,138 165) _____
- 166) _____

$$\begin{array}{r} 907 \\ \times 18 \\ \hline \end{array}$$

 A) 16,333 B) 16,319 C) 1746 D) 16,326 166) _____
- 167) _____

$$\begin{array}{r} 961 \\ \times 65 \\ \hline \end{array}$$

 A) 62,475 B) 62,465 C) 62,565 D) 62,455 167) _____

- 168) $(99)(251)(0)$ 168) _____
 A) 24,839 B) 24,849 C) 24,949 D) 0
- 169) $(280)(20)$ 169) _____
 A) 5610 B) 5596 C) 5600 D) 5590
- 170) $(440)(1)(30)$ 170) _____
 A) 13,210 B) 13,200 C) 13,196 D) 13,190
- 171) 1389×39 171) _____
 A) 41,679 B) 4157 C) 16,668 D) 54,171
- 172) 413×440 172) _____
 A) 181,730 B) 181,710 C) 181,820 D) 181,720
- 173) 173) _____

$$\begin{array}{r} 1508 \\ \times 406 \\ \hline \end{array}$$

 A) 612,248 B) 610,740 C) 69,368 D) 15,080
- 174) 174) _____

$$\begin{array}{r} 7900 \\ \times 447 \\ \hline \end{array}$$

 A) 3,531,300 B) 3,541,300 C) 3,531,400 D) 3,530,300
- 175) 175) _____

$$\begin{array}{r} 1811 \\ \times 2406 \\ \hline \end{array}$$

 A) 4,455,060 B) 3,632,866 C) 4,357,266 D) 3,705,306
- 176) 176) _____

$$\begin{array}{r} 898 \\ \times 110 \\ \hline \end{array}$$

 A) 89,800 B) 9878 C) 98,780 D) 987,800

Estimate the answer by rounding as indicated.

- 177) Estimate the product by rounding each factor to the nearest hundred. 177) _____
 525×147
 A) 77,175 B) 77,200 C) 600 D) 50,000
- 178) Estimate the product by rounding each factor to the nearest ten. 178) _____
 609×25
 A) 15,230 B) 15,225 C) 630 D) 18,300

Solve.

179) Fill in the missing digits in the problem.

179) _____

$$\begin{array}{r} 7__ \\ \times __9 \\ \hline 666 \\ 2220 \\ \hline 2886 \end{array}$$

A) 8, 6

C) 4, 3

B) 1, 2

D) cannot be determined

Multiply.

180) 5×100

A) 500

B) 600

C) 5000

D) 50

180) _____

181) 15×1000

A) 15,000

B) 1500

C) 150

D) 150,000

181) _____

182) $9041 \cdot 10$

A) 94,010

B) 904,100

C) 94,100

D) 90,410

182) _____

183) $4 \cdot 6000$

A) 2400

B) 240,000

C) 10,000

D) 24,000

183) _____

184) $90 \cdot 500$

A) 450,000

B) 14,000

C) 4500

D) 45,000

184) _____

185) $34 \cdot 80,000$

A) 420,000

B) 2,720,000

C) 272,000

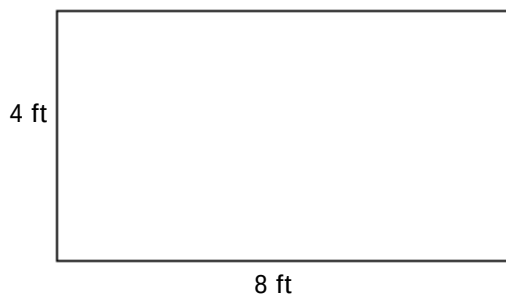
D) 27,200,000

185) _____

Find the area of the rectangle.

186)

186) _____



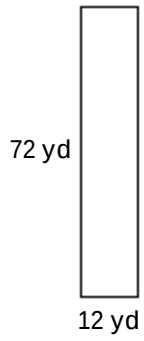
A) 32 sq ft

B) 48 sq ft

C) 16 sq ft

D) 64 sq ft

187)



A) 864 sq yd

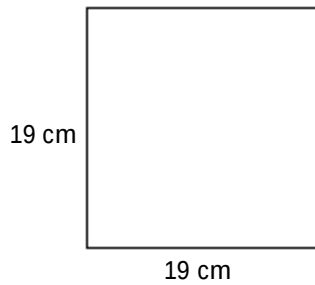
B) 720 sq yd

C) 84 sq yd

D) 854 sq yd

187) _____

188)



A) 356 sq cm

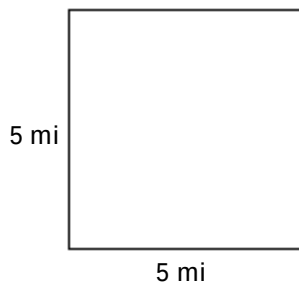
B) 76 sq cm

C) 361 sq cm

D) 722 sq cm

188) _____

189)



A) 21 sq mi

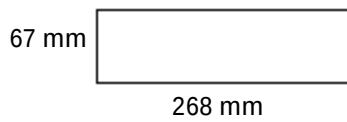
B) 28 sq mi

C) 25 sq mi

D) 20 sq mi

189) _____

190)



A) 17,966 sq mm

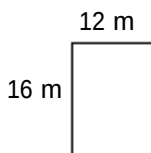
B) 670 sq mm

C) 17,956 sq mm

D) 17,946 sq mm

190) _____

191)



A) 192 sq m

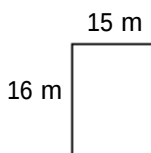
B) 28 sq m

C) 384 sq m

D) 56 sq m

191) _____

192)



A) 62 sq m

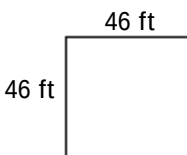
B) 240 sq m

C) 480 sq m

D) 31 sq m

192) _____

193)



A) 2116 sq ft

B) 184 sq ft

C) 92 sq ft

D) 4232 sq ft

193) _____

Solve.

194) Multiply 97 by 6.

A) 682

B) 542

C) 553

D) 582

194) _____

195) Find the product of 8 and 841.

A) 6628

B) 6738

C) 6728

D) 6828

195) _____

196) The textbook for a history class costs \$112. There are 32 students in the class. Find the total cost of the history books for the class.

A) \$3472

B) \$3584

C) \$144

D) \$3552

196) _____

197) The seats in a lecture hall are arranged in 24 rows with 7 seats in each row. Find how many seats are in this room.

A) 168 seats

B) 175 seats

C) 178 seats

D) 161 seats

197) _____

198) A case of candy bars has 2 layers of candy bars. In each layer are 8 rows with 12 candy bars in each row. Find how many candy bars are in a case.

A) 192 candy bars

B) 191 candy bars

C) 202 candy bars

D) 182 candy bars

198) _____

199) An apartment complex has 3 apartment buildings. Each building has 9 floors with 8 apartments per floor. Find how many apartments are in this complex.

A) 206 apartments

B) 226 apartments

C) 216 apartments

D) 20 apartments

199) _____

200) A rectangular plot of land measure 90 feet by 170 feet. Find its area.

A) 15,300 sq. ft.

B) 520 sq. ft.

C) 1530 sq. ft.

D) 260 sq. ft.

200) _____

201) In a distant solar system the diameter of planet A is 9 times as great as the diameter of planet B. The diameter of planet B is 867 miles. Find the diameter of planet A. 201) _____
 A) 7803 mi. B) 7794 mi. C) 7793 mi. D) 7703 mi.

202) A company rents a mid-size car at \$309 per month for six months. What is the cost for the car rental during this time? 202) _____
 A) \$315 B) \$1854 C) \$1803 D) \$1886

203) There are 97 puppies in a room, with an assortment of black and white ears and paws. 21 have totally black ears and 3 white paws, 27 puppies have 1 black ear and 2 white paws, and 49 have no black ears and 1 white paw. How many black paws are in the room? 203) _____
 A) 221 B) 222 C) 169 D) 166

204) During the recent Homecoming football game, State U. scored the following: 6 six-point touchdowns, 6 extra points, 6 three-point field goals, and 1 two-point safety. What was State U.'s final score? 204) _____
 A) 29 points B) 20 points C) 28 points D) 62 points

Divide and then check by multiplying.

205) $\frac{18}{2}$ 205) _____
 A) 10 B) 9 C) 8 R 2 D) 8 R 1

206) $\frac{72}{9}$ 206) _____
 A) 7 R 8 B) 8 C) 9 D) 7 R 9

207) $16 \div 2$ 207) _____
 A) 9 B) 7 R 1 C) 7 R 2 D) 8

208) $28 \div 4$ 208) _____
 A) 7 B) 8 C) 6 R 3 D) 6 R 4

209) $\frac{8}{0}$ 209) _____
 A) 0 B) 8 C) 1 D) Undefined

210) $9 \div 1$ 210) _____
 A) 0 B) 9 C) 1 D) Undefined

211) $41 \div 41$ 211) _____
 A) 41 B) 0 C) 1 D) Undefined

212) $0 \div 40$ 212) _____
 A) 0 B) 40 C) 1 D) Undefined

Divide.

213) $5 \overline{)15}$ A) 4	B) 3	C) 2 R 4	D) 2 R 5	213) _____
214) $5 \overline{)35}$ A) 7	B) 6 R 5	C) 6 R 4	D) 8	214) _____
215) $3 \overline{)159}$ A) 55	B) 56	C) 53	D) 51	215) _____
216) $4 \overline{)532}$ A) 136	B) 135	C) 133	D) 131	216) _____
217) $3 \overline{)3363}$ A) 1121 R 2	B) 1121	C) 1119	D) 1119 R 1	217) _____
218) $2223 \div 39$ A) 58	B) 57 R 30	C) 57	D) 58 R 29	218) _____
219) $60 \overline{)36,060}$ A) 611 R 22	B) 591	C) 606 R 14	D) 601	219) _____
220) $\frac{65,596}{62}$ A) 1068 R 21	B) 1048	C) 1058	D) 1063 R 13	220) _____
221) $228 \div 8$ A) 28 R 7	B) 28 R 4	C) 28	D) 32	221) _____
222) $301 \div 6$ A) 51	B) 50 R 1	C) 50 R 5	D) 50	222) _____
223) $1174 \div 8$ A) 152	B) 146 R 6	C) 146	D) 146 R 7	223) _____
224) $1333 \div 5$ A) 265 R 8	B) 266 R 3	C) 266 R 2	D) 266	224) _____
225) $2719 \div 4$ A) 678 R 7	B) 679 R 2	C) 679	D) 679 R 3	225) _____
226) $4857 \div 18$ A) 269	B) 15	C) 269 R 15	D) 269 R 12	226) _____
227) $129,953 \div 800$ A) 353	B) 162 R 353	C) 162 R 283	D) 162	227) _____

- 228) $204,379 \div 470$ 228) _____
 A) 434 B) 434 R 399 C) 434 R 279 D) 399
- 229) $6671 \div 69$ 229) _____
 A) 99 R 61 B) 96 R 47 C) 99 R 5 D) 96
- 230) $2278 \div 36$ 230) _____
 A) 66 R 5 B) 63 C) 66 R 28 D) 63 R 10
- Solve.
- 231) Find the quotient of 220 and 8. 231) _____
 A) 31 B) 27 R 4 C) 27 R 7 D) 27
- 232) Find 176 divided by 9. 232) _____
 A) 19 R 8 B) 24 C) 19 R 5 D) 19
- 233) Amy teaches Chinese lessons for \$65 per student for a 6-week session. From one group of students, she collects \$1690. Find how many students are in the group. 233) _____
 A) 28 students B) 16 students C) 30 students D) 26 students
- 234) 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. 234) _____
 A) \$325,000 B) \$32,500 C) \$324,000 D) \$32,600
- 235) In a distant galaxy the gravity of planet A is 216 times as strong as the gravity of planet B, so objects on planet A weigh 216 times as much as they weigh on planet B. If the object weighs 33,264 pounds on planet A, how much does it weigh on planet B? 235) _____
 A) 1540 lb. B) 147 lb. C) 164 lb. D) 154 lb.
- 236) Ms. Losch has a piece of rope 180 feet long that she cuts into pieces for an experiment in her first-grade class. Each piece of rope is to be 8 feet long. How many 8 foot long pieces of rope can she cut from the original piece of rope. 236) _____
 A) 4 pieces of rope B) 22 pieces of rope
 C) 26 pieces of rope D) 23 pieces of rope
- 237) 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? 237) _____
 A) 17,750 gal. B) 1,775,000 gal. C) 177,500 gal. D) 2,840,000 gal.
- 238) Wyatt wishes to pay off a car loan of \$7756 in 28 months. How large will his monthly payment be? 238) _____
 A) \$270 B) \$3324 C) \$263 D) \$277
- 239) County records list a rectangular parcel of land as measuring 28,757 square yards. A surveyor measures the length of the parcel of land as 193 yards. What is the width of the parcel? 239) _____
 A) 28,564 yards B) 149 yards C) 158 yards D) 142 yards

- 240) If the area of a rectangle is 14 square centimeters and its length is 7 centimeters, what is its width? 240) _____
- A) 98 centimeters B) $\frac{49}{2}$ centimeters C) 2 centimeters D) 7 centimeters

Find the average of the list of numbers.

- 241) 75, 61, 44, 39, 68, 43 241) _____
- A) 53 B) 56 C) 61 D) 55
- 242) 61, 65, 62, 66, 93, 60, 62 242) _____
- A) 66 B) 67 C) 62 D) 77
- 243) 374, 800, 765, 821 243) _____
- A) 690 B) 590 C) 740 D) 714
- 244) 203, 162, 184, 191, 200 244) _____
- A) 198 B) 188 C) 187 D) 191
- 245) 62, 56, 48, 52, 62 245) _____
- A) 55 B) 48 C) 56 D) 62

Solve.

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

Books	\$825
Room & Board	\$7000
Clothes	\$2200
Entertainment	\$5800

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

- A) \$9200 B) \$4600 C) \$3956.25 D) \$3312.50
- 247) 56 increased by 23 is what number? 247) _____
- A) 115 B) 97 C) 79 D) 88
- 248) 32 decreased by 6 is what number? 248) _____
- A) 36 B) 27 C) 26 D) 25
- 249) What is the difference of 74 and 5? 249) _____
- A) 70 B) 69 C) 68 D) 79
- 250) What is the product of 67 and 6? 250) _____
- A) 502 B) 373 C) 402 D) 362
- 251) What is the quotient of 45 and 5? 251) _____
- A) 9 B) 8 R5 C) 10 D) 8 R4
- 252) 216 divided by 4 is what number? 252) _____
- A) 56 B) 52 C) 57 D) 54

- 253) A programmer picks up a rental car that has an odometer reading of 34,816 miles on it. When she returns it, the odometer reads 35,301 miles. How many miles did she drive the rental car? 253) _____
 A) 8917 B) 585 C) 485 D) 285
- 254) A 14-ounce can of tomato soup is priced at \$1.26. What is the unit price per ounce? 254) _____
 A) \$0.09 per ounce B) \$0.11 per ounce
 C) \$17.64 per ounce D) \$1.17 per ounce
- 255) A store has gross revenues of \$7489, \$6468, \$7084, and \$6355 in its first four weeks of business. What was the gross revenue for those four weeks? 255) _____
 A) \$27,946 B) \$26,396 C) \$27,396 D) \$27,496
- 256) A store orders 14 cases of action figures. Each case contains 108 action figures. How many action figures did the store order? 256) _____
 A) 1522 B) 1512 C) 1506 D) 1502
- 257) An airplane is flying west at an altitude of 34,290 feet. Another plane is flying north at an altitude of 30,798 feet. How much above the north-bound plane is the west-bound plane when their paths cross? 257) _____
 A) 3422 feet B) 3692 feet C) 3462 feet D) 3492 feet
- 258) Crystal enjoys skiing in the winter. Last year she skied 18 times and spent a total of \$558. How much did it cost her each time? 258) _____
 A) \$10,044 B) \$32 C) \$540 D) \$31
- 259) A plot of land which is up for sale is advertised as being 27 acres. If there are 4840 square yards in an acre, how many square yards does the plot of land cover? 259) _____
 A) 130,680 square yards B) 4867 square yards
 C) 131,220 square yards D) 130,410 square yards
- 260) The Spring City school system has 3983 high school students, 3565 middle school students, and 3735 elementary school students. How many total students are in the Spring City school system? 260) _____
 A) 11,191 B) 11,283 C) 11,338 D) 11,243
- 261) Ian had a balance of \$50 in his checking account. Since then he made deposits of \$172, \$257 and \$351 and wrote checks for \$85, \$114, \$221, and \$202. When all of the deposits are recorded and all of the checks clear, what will balance will he have in his checking account? 261) _____
 A) \$158 B) \$293 C) \$208 D) \$1452
- 262) Caitlyn wanted to determine the gas mileage she was getting on her car. She filled the gas tank on her car when the odometer read 30,118 miles. After 12 days the odometer read 30,514 miles and it took 11 gallons of gas to fill the tank. How many miles to the gallon did Caitlyn's car achieve? 262) _____
 A) 396 miles per gallon B) 36 miles per gallon
 C) 391 miles per gallon D) 33 miles per gallon
- 263) Hannah owns 28 acres of land which she rents to a rancher for \$2132 per acre per year. Her property taxes are \$794 per acre per year. How much profit does she make on the land each year? 263) _____
 A) \$37,464 B) \$58,902 C) \$60,490 D) \$81,928

- 264) In preparation for his new job, Travis bought two suits at \$179 a piece, five shirts at \$26 a piece, two pairs of shoes at \$70 a piece, four ties at \$23 a piece, and five pairs of socks at \$6 a piece. What was the total cost of these items? 264) _____

A) \$767 B) \$720 C) \$750 D) \$304

- 265) Chris and his friends went to the movies. They purchased 3 adult tickets, 2 student tickets and 4 child tickets. How much did they spend on movie tickets? 265) _____

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

A) 50 B) 48 C) 56 D) 36

- 266) The chart below lists the prices for custom windows. Window sizes are stated width $\times$ length, so a window that is 29×31 is 29 inches wide and 31 inches tall. John wants to replace two 25×31 windows, four 29×36 windows and five 29×41 windows. How much will the windows cost? 266) _____

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

A) \$3820 B) \$3610 C) \$3680 D) \$3760

- 267) An apartment complex replaced various appliances in the building and billed each tenant a one-time assessment fee for the update. Use the chart below to calculate the cost per apartment unit if there are 29 units. 267) _____

JOHN'S APPLIANCES			INVOICE NO.
Bill To:			00356
ABC Apartment Complex			
123 Main Street Johnsbury, IL 60123			
Quantity	Item Description	Unit Price	Total
20	Quiet Motor Dishwasher	\$490	
20	Econo Refrigerator	\$380	
12	Super Cycle Washers	\$550	
Total Cost for all Items			

A) \$979.31 B) \$48.97 C) \$827.59 D) \$793.10

Write using exponential notation.

- 268) $6 \cdot 6$ 268) _____

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

- 269) $2 \cdot 2 \cdot 2$ 269) _____

A) $3 \cdot 2$ B) 2^1 C) 2^3 D) 3^2

270) $9 \cdot 9 \cdot 9 \cdot 9$ A) 4^9	B) 9^4	C) 9^2	D) 36	270) _____
271) $4 \cdot 4 \cdot 4 \cdot 4 \cdot 4$ A) 5^4	B) 4^5	C) 4^0	D) $5 \cdot 4$	271) _____
272) $20 \cdot 20 \cdot 20 \cdot 20$ A) 20^1	B) 4^{20}	C) 20^4	D) $4 \cdot 20$	272) _____
273) $17 \cdot 17 \cdot 17 \cdot 17 \cdot 17$ A) $5 \cdot 5^{17}$	B) 17^5	C) $5 \cdot 17$	D) 5^{17}	273) _____
274) $9 \cdot 9 \cdot 3 \cdot 3 \cdot 3 \cdot 3$ A) $2^9 \cdot 4^3$	B) 27^6	C) $9 \cdot 3^6$	D) $9^2 \cdot 3^4$	274) _____
275) $4 \cdot 4 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 3$ A) $4 \cdot 2 \cdot 3^7$	B) $(4 \cdot 2 \cdot 3)^7$	C) $2^4 \cdot 3^2 \cdot 1^3$	D) $4^2 \cdot 2^4 \cdot 3$	275) _____

Evaluate.

276) 9^2 A) 512	B) 100	C) 18	D) 81	276) _____
277) 5^3 A) 64	B) 15	C) 243	D) 125	277) _____
278) 8^4 A) 32	B) 65,536	C) 4096	D) 512	278) _____
279) 9^5 A) 45	B) 59,049	C) 531,441	D) 1,953,125	279) _____
280) 1^{15} A) 15	B) 0	C) 1	D) Not defined.	280) _____
281) 4^1 A) Not defined.	B) 0	C) 4	D) 1	281) _____
282) $2 \cdot 5^3$ A) 250	B) 127	C) 30	D) 1000	282) _____

Find the square root.

283) $\sqrt{9}$ A) 81	B) 3	C) 2	D) 4	283) _____
284) $\sqrt{121}$ A) 11	B) 14,641	C) 10	D) 12	284) _____

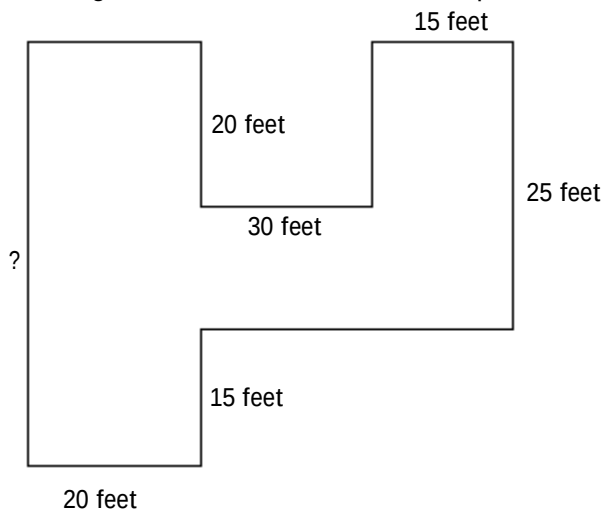
285) $\sqrt{1}$	A) 0	B) 2	C) 1	D) undefined	285) _____
Simplify.					
286) $240 \div 6 - 3$	A) 37	B) 80	C) 237	D) 231	286) _____
287) $30 + 21 \cdot 28$	A) 618	B) 79	C) 658	D) 1428	287) _____
288) $5 \cdot 5 - 9$	A) 34	B) 225	C) 20	D) 16	288) _____
289) $8^2 - 3 \cdot 2$	A) 80	B) 50	C) 122	D) 58	289) _____
290) $12 \cdot 10 + 5 \cdot 15$	A) 2700	B) 195	C) 1020	D) 1875	290) _____
291) $0 \div 8 + 9 \cdot 4$	A) 68	B) 36	C) 44	D) Undefined	291) _____
292) $48 \div 0 + 48$	A) 1	B) Undefined	C) 96	D) 48	292) _____
293) $8 \cdot 3 + \{6 \div [8 - (3 + 2)]\}$	A) 25	B) 26	C) 28	D) 27	293) _____
294) $81 \div 3 + \{7 \cdot [18 - (7 \cdot 2)]\}$	A) 50	B) 58	C) 45	D) 55	294) _____
295) $[31 - (4 + 6) \div 2] - [1 + 6 \div 3]$	A) 20	B) 18	C) 23	D) 30	295) _____
296) $(64 - 18) \cdot [(80 + 10 \div 5) - (6 \cdot 6 - 3 \cdot 3)]$	A) 2494	B) 2630	C) 2587	D) 2530	296) _____
297) $3 \cdot \{(300 - 85 \div 5) - [3 \cdot 21 - (8 - 2 \cdot 3)]\}$	A) 616	B) -834	C) 2442	D) 666	297) _____
298) $\{[57 - 2 \cdot 5] - [72 \div (1 + 2)]\} \cdot 4$	A) 116	B) 136	C) 92	D) 84	298) _____
299) $(3 + 8)[5 + (2 + 6)]$	A) 63	B) 143	C) 24	D) 20	299) _____
300) $6[1 + 2(8^2)]$	A) 1734	B) 1542	C) 774	D) 10,404	300) _____

301) $(7 + 5)[4 + (7 + 6)]$ A) 1610	B) 204	C) 64	D) 595	301) _____
302) $8[3^2 + 8(2 + 6)]$ A) 88	B) 248	C) 584	D) 1088	302) _____
303) $\frac{193 + 7}{3^2 - 4}$ A) 100	B) 60	C) 40	D) 38	303) _____
304) $\frac{54(17 - 14) - 12}{3^2 - 3}$ A) 27	B) 50	C) 28	D) 25	304) _____
305) $2\sqrt{81} + 5\sqrt{49}$ A) 16	B) 23	C) 53	D) 407	305) _____
306) $\frac{\sqrt{25} + 5}{82 + 2(10 - 5) - 9^2 - 6}$ A) 10	B) 25	C) 2	D) 5	306) _____
307) $[\sqrt{9} \div (8 - 5) + 9^2] - (\sqrt{25} + \sqrt{1})^2$ A) 56	B) 46	C) 106	D) 58	307) _____
308) $(64 - 20) \cdot [(80 + 15 \div 5) - (7 \cdot 7 - 1 \cdot 1)]$ A) 1504	B) 1640	C) 1540	D) 1597	308) _____
309) $3 \cdot \{(300 - 55 \div 5) - [3 \cdot 26 - (8 - 2 \cdot 3)]\}$ A) 2415	B) -861	C) 589	D) 639	309) _____

Solve.

- 310) Five 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 five pools to get a cost estimate. Find the total perimeter.

310) _____



A) 255 feet

B) 1020 feet

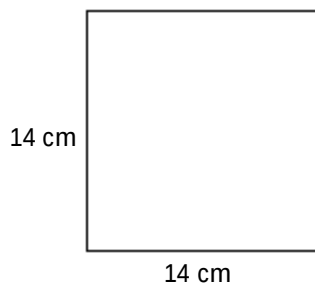
C) 1250 feet

D) 250 feet

Find the area of the square.

311)

311) _____



A) 392 sq cm

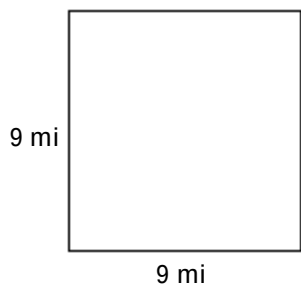
B) 196 sq cm

C) 191 sq cm

D) 56 sq cm

312)

312) _____



A) 77 sq mi

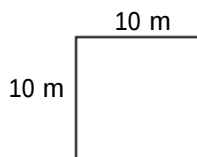
B) 81 sq mi

C) 36 sq mi

D) 84 sq mi

313)

313) _____



A) 40 sq m

B) 200 sq m

C) 100 sq m

D) 20 sq m

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

difference
divisor
quotient
sum
average

area
minuend
subtrahend
whole numbers
product

square root
place value
exponent
perimeter

addend
factor
digits
dividend

- 314) The _____ are 0, 1, 2, 3 . . . 314) _____
 A) digits B) factor C) whole numbers D) place value
- 315) The _____ of a polygon is its distance around or the sum of the lengths of its sides. 315) _____
 A) area B) product C) exponent D) perimeter
- 316) The position of each digit in a number determines its _____. 316) _____
 A) square root B) dividend C) sum D) place value
- 317) A(n) _____ is a shorthand notation for repeated multiplication of the same factor. 317) _____
 A) factor B) addend C) exponent D) quotient
- 318) To find the _____ of a rectangle, multiply length times width. 318) _____
 A) area B) product C) perimeter D) sum
- 319) A(n) _____ of a number is one of two identical factors of the number. 319) _____
 A) minuend B) square root C) subtrahend D) quotient
- 320) The _____ used to write numbers are 0, 1 ,2 ,3 ,4 ,5 ,6 ,7 ,8, and 9. 320) _____
 A) digits B) factor C) place value D) whole numbers
- 321) The _____ of a list of numbers is their sum divided by the number of numbers. 321) _____
 A) area B) average C) perimeter D) place value
- 322) The 5 above is called the _____. 322) _____
 A) difference B) quotient C) dividend D) divisor
- 323) The 35 above is called the _____. 323) _____
 A) quotient B) divisor C) difference D) dividend
- 324) The 7 above is called the _____. 324) _____
 A) difference B) divisor C) dividend D) quotient
- 325) The 3 above is called the _____. 325) _____
 A) subtrahend B) addend C) factor D) product
- 326) The 6 above is called the _____. 326) _____
 A) sum B) quotient C) factor D) product

- 327) The 20 above is called the _____.
 A) minuend B) addend C) difference D) subtrahend 327) _____
- 328) The 9 above is called the _____.
 A) subtrahend B) addend C) difference D) minuend 328) _____
- 329) The 11 above is called the _____.
 A) addend B) difference C) minuend D) subtrahend 329) _____
- 330) The 4 above is called the _____.
 A) addend B) factor C) minuend D) sum 330) _____
- 331) The 21 above is called the _____.
 A) product B) quotient C) sum D) difference 331) _____

Simplify.

- 332) Write 64,776 in words. 332) _____
 A) six thousand, seven hundred seventy-six
 B) sixty thousand, seven hundred seventy-six
 C) sixty-four thousand, seven hundred seventy-six
 D) sixty-four thousand, seventy-seven hundred, six
- 333) Write "thirty-four thousand five hundred forty-one" in standard form. 333) _____
 A) 345,041 B) 340,541 C) 304,541 D) 34,541
- 334) $78 + 15$ 334) _____
 A) 83 B) 93 C) 92 D) 94
- 335) $638 - 455$ 335) _____
 A) 1093 B) 173 C) 183 D) 83
- 336) 336) _____

$$\begin{array}{r} 116 \\ \times 90 \\ \hline \end{array}$$

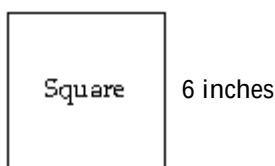
 A) 9440 B) 11,440 C) 20,440 D) 10,440
- 337) $12,335 \div 13$ 337) _____
 A) 11 B) 948 R 6 C) 948 R 11 D) 948
- 338) $2^3 \cdot 7^2$ 338) _____
 A) 537,824 B) 392 C) 84 D) 294
- 339) $\sqrt{48} \cdot \sqrt{48}$ 339) _____
 A) 48 B) 96 C) 2304 D) 14
- 340) $0 \div 14$ 340) _____
 A) 0 B) 14 C) 1 D) undefined

- 341) $73 \div 0$
 A) 3 B) 0 C) 1 D) undefined 341) _____
- 342) $(9^2 - 2) \cdot 6$
 A) 378 B) 474 C) 294 D) 69 342) _____
- 343) $8 + 4 \div 2 \cdot 3 - 4$
 A) 14 B) 10 C) 32 D) 18 343) _____
- 344) $\frac{100 \div 10 \cdot 2}{(\sqrt{9} - \sqrt{4})^2 + 1}$
 A) 10 B) 20 C) 5 D) 40 344) _____
- 345) $4[(5 - 4)^2 + (18 - 16)^2] + 12$
 A) 32 B) 8 C) 4 D) 68 345) _____
- 346) $2257 \cdot 10$
 A) 2,257,100 B) 225,700 C) 225,710 D) 22,570 346) _____
- 347) $5000 \cdot 1100$
 A) 55,000 B) 550,000 C) 55,000,000 D) 5,500,000 347) _____
- 348) Round 26,387 to the nearest thousand.
 A) 26,100 B) 27,000 C) 26,000 D) 36,000 348) _____
- Estimate the sum or difference by rounding each number to the nearest hundred.
- 349) $7386 + 4219 + 2962$
 A) 14,500 B) 14,600 C) 14,400 D) 14,700 349) _____
- 350) $366 - 117$
 A) 500 B) 300 C) 200 D) 249 350) _____
- Solve.
- 351) Subtract 4 from 53.
 A) 49 B) 50 C) 59 D) 48 351) _____
- 352) Find the sum of 34 and 205.
 A) 171 B) 6970 C) 239 D) 478 352) _____
- 353) Find the product of 15 and 307.
 A) 4605 B) 4612 C) 4598 D) 555 353) _____
- 354) Find the quotient of 126 and 13.
 A) 9 R 10 B) 9 R 9 C) 8 R 8 D) 10 R 9 354) _____
- 355) Amy teaches Chinese lessons for \$45 per student for a 6-week session. From one group of students, she collects \$1575. Find how many students are in the group.
 A) 25 students B) 35 students C) 37 students D) 39 students 355) _____

- 356) Svetlana is trading her car in on a new car. The new car costs \$23,025. Her car is worth \$6998. How much more money does she need to buy the new car? 356) _____
 A) \$15,927 B) \$16,028 C) \$16,017 D) \$16,027
- 357) The seats in a lecture hall are arranged in 24 rows with 8 seats in each row. Find how many seats are in this room. 357) _____
 A) 184 seats B) 192 seats C) 200 seats D) 202 seats
- 358) In preparation for his new job, Kevin bought two suits at \$164 a piece, four shirts at \$25 a piece, two pairs of shoes at \$69 a piece, four ties at \$21 a piece, and five pairs of socks at \$7 a piece. What was the total cost of these items? 358) _____
 A) \$699 B) \$286 C) \$650 D) \$685

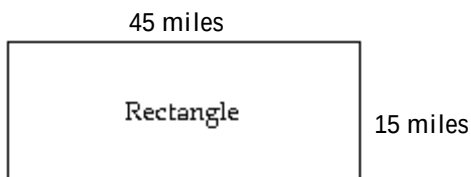
Find the perimeter and the area of the figure.

- 359) 359) _____



- A) perimeter: 36 in.; area: 24 sq in. B) perimeter: 24 in.; area: 36 sq in.
 C) perimeter: 24 in.; area: 144 sq in. D) perimeter: 12 in.; area: 36 sq in.

- 360) 360) _____



- A) perimeter: 60 mi; area: 675 sq mi B) perimeter: 120 mi; area: 675 sq mi
 C) perimeter: 120 mi; area: 1350 sq mi D) perimeter: 675 mi; area: 120 sq mi

Answer Key

Testname: UNTITLED26

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

Answer Key

Testname: UNTITLED26

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

Answer Key

Testname: UNTITLED26

101) B

102)

$$\begin{array}{r} 24,3\bar{2}1 \\ - 2190 \\ \hline 22,1\bar{3}1 \end{array}$$

103) B

104) D

105) C

106) B

107) C

108) A

109) A

110) B

111) B

112) B

113) B

114) C

115) B

116) A

117) B

118) D

119) C

120) C

121) C

122) D

123) B

124) D

125) A

126) B

127) B

128) B

129) B

130) C

131) A

132) A

133) C

134) D

135) A

136) A

137) C

138) C

139) A

140) A

141) B

142) C

143) B

144) B

145) A

146) B

147) A

Answer Key

Testname: UNTITLED26

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

Answer Key

Testname: UNTITLED26

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

Answer Key

Testname: UNTITLED26

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

Answer Key

Testname: UNTITLED26

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

Answer Key

Testname: UNTITLED26

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