

Name \_\_\_\_\_

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

Answer the question.

- |                                                       |                        |
|-------------------------------------------------------|------------------------|
| 1) What does the digit 7 mean in the number 247,189?  | 1) _____               |
| A) 7 ten thousands                                    | B) 7 hundreds          |
| C) 7 thousands                                        | D) 7 hundred thousands |
| 2) What does the digit 4 mean in the number 247,189?  | 2) _____               |
| A) 4 hundreds                                         | B) 4 ten thousands     |
| C) 4 thousands                                        | D) 4 hundred thousands |
| 3) What does the digit 2 mean in the number 247,189?  | 3) _____               |
| A) 2 thousands                                        | B) 2 ten thousands     |
| C) 2 hundreds                                         | D) 2 hundred thousands |
| 4) What does the digit 4 mean in the number 189,247?  | 4) _____               |
| A) 4 tens                                             | B) 4 hundreds          |
| C) 4 thousands                                        | D) 4 ones              |
| 5) What does the digit 2 mean in the number 189,247?  | 5) _____               |
| A) 2 hundred thousands                                | B) 2 thousands         |
| C) 2 tens                                             | D) 2 hundreds          |
| 6) What does the digit 7 mean in the number 189,247?  | 6) _____               |
| A) 7 tens                                             | B) 7 ones              |
| C) 7 thousands                                        | D) 7 hundreds          |
| 7) What does the digit 3 mean in the number 301,475?  | 7) _____               |
| A) 3 ten thousands                                    | B) 3 thousands         |
| C) 3 hundreds                                         | D) 3 hundred thousands |
| 8) What does the digit 0 mean in the number 301,475?  | 8) _____               |
| A) 0 hundred thousands                                | B) 0 ones              |
| C) 0 ten thousands                                    | D) 0 thousands         |
| 9) What does the digit 4 mean in the number 301,475?  | 9) _____               |
| A) 4 hundreds                                         | B) 4 tens              |
| C) 4 hundred thousands                                | D) 4 thousands         |
| 10) What does the digit 9 mean in the number 890,236? | 10) _____              |
| A) 9 hundred thousands                                | B) 9 ten thousands     |
| C) 9 hundreds                                         | D) 9 thousands         |

Fill in the digits for the given place values in the following whole number.

- 11) 3426 11) \_\_\_\_\_  
thousands \_\_  
tens \_\_  
A) Thousands 3, tens 2 B) Thousands 4, tens 2  
C) Thousands 4, tens 6 D) Thousands 3, tens 6
- 12) 5163 12) \_\_\_\_\_  
hundreds \_\_  
ones \_\_  
A) Hundreds 6, ones 3 B) Hundreds 1, ones 6  
C) Hundreds 5, ones 1 D) Hundreds 1, ones 3
- 13) 16,762 13) \_\_\_\_\_  
ten thousands \_\_  
ones \_\_  
A) Ten thousands 6, ones 2 B) Ten thousands 1, ones 2  
C) Ten thousands 1, ones 6 D) Ten thousands 6, ones 7
- 14) 57,819 14) \_\_\_\_\_  
ten thousands \_\_  
hundreds \_\_  
A) Ten thousands 5, hundreds 8 B) Ten thousands 1, hundreds 8  
C) Ten thousands 7, hundreds 9 D) Ten thousands 5, hundreds 7
- 15) 29,765 15) \_\_\_\_\_  
thousands \_\_  
tens \_\_  
A) Thousands 9, tens 2 B) Thousands 9, tens 6  
C) Thousands 7, tens 5 D) Thousands 6, tens 5
- 16) 5,986,275 16) \_\_\_\_\_  
millions \_\_  
thousands \_\_  
A) Millions 2, thousands 7 B) Millions 5, thousands 8  
C) Millions 9, thousands 6 D) Millions 5, thousands 6
- 17) 8,743,491 17) \_\_\_\_\_  
hundred thousands \_\_  
tens \_\_  
A) Hundred thousands 7, tens 9 B) Hundred thousands 4, tens 4  
C) Hundred thousands 8, tens 9 D) Hundred thousands 7, tens 3
- 18) 7,612,362,767 18) \_\_\_\_\_  
billions \_\_  
millions \_\_  
A) Billions 7, millions 2 B) Billions 6, millions 2  
C) Billions 2, millions 1 D) Billions 2, millions 3

Write expanded notation.

19) 146

- A) 1 thousands + 4 hundreds + 6 tens
- C) 6 hundreds + 4 tens + 1 ones

- B) 1 hundreds + 4 tens + 6 ones
- D) 146 hundreds

19) \_\_\_\_\_

20) 7912

- A) 7 hundreds + 1 tens + 9 ones
- B) 2 thousands + 1 hundreds + 9 tens + 7 ones
- C) 7 thousands + 9 hundreds + 1 tens + 2 ones
- D) 7912 thousands

20) \_\_\_\_\_

21) 59,231

- A) 59,231 ten thousands
- B) 1 ten thousands + 3 thousands + 2 hundreds + 9 tens + 5 ones
- C) 5 thousands + 9 hundreds + 2 tens + 31 ones
- D) 5 ten thousands + 9 thousands + 2 hundreds + 3 tens + 1 ones

21) \_\_\_\_\_

22) 90,400

- A) 9 ten thousands + 0 thousands + 4 hundreds + 0 tens + 0 ones
- B) 940 ten thousands + 0 tens + 0 ones
- C) 9 thousands + 4 hundreds + 0 tens + 0 ones
- D) 9 ten thousands + 4 thousands + 0 hundreds + 0 tens + 0 ones

22) \_\_\_\_\_

23) 5070

- A) 507 thousands
- B) 5 ten thousands + 7 thousands + 0 hundreds + 0 tens + 0 ones
- C) 5 hundreds + 0 tens + 7 ones
- D) 5 thousands + 0 hundreds + 7 tens + 0 ones

23) \_\_\_\_\_

24) 30,610

- A) 3 thousands + 0 hundreds + 6 tens + 1 ones
- B) 3 ten thousands + 6 thousands + 0 hundreds + 1 tens + 0 ones
- C) 3 thousands + 6 hundreds + 0 tens + 1 ones
- D) 3 ten thousands + 0 thousands + 6 hundreds + 1 tens + 0 ones

24) \_\_\_\_\_

25) The number of steps in a stair-climbing race held in a Chicago landmark building was 1145.

- A) 1 thousands + 1 hundreds + 4 tens + 5 ones
- B) 1 thousands + 4 hundreds + 5 tens + 0 ones
- C) 1 thousands + 145 hundreds
- D) 1 thousands + 5 hundreds + 4 tens + 1 ones

25) \_\_\_\_\_

26) The number of steps in a stair-climbing race held in a Malaysian landmark building was 2648.

- A) 2 thousands + 6 hundreds + 4 tens + 8 ones
- B) 6 thousands + 4 hundreds + 8 tens + 0 ones
- C) 2 thousands + 4 hundreds + 8 tens + 6 ones
- D) 2 thousands + 0 hundreds + 4 tens + 8 ones

26) \_\_\_\_\_

- 27) The projected population in 2030 for a certain country is 280,309. 27) \_\_\_\_\_
- A) 2 hundred thousands + 0 ten thousands+ 8 thousands + 3 hundreds + 0 tens + 9 ones
  - B) 2 hundred thousands + 8 ten thousands + 0 thousands + 3 hundreds + 0 tens + 9 ones
  - C) 2 hundred thousands + 8 ten thousands + 3 thousands + 0 hundreds + 0 tens + 9 ones
  - D) 28 ten thousands + 0 thousands + 3 hundreds + 0 tens + 9 ones
- 28) The projected population in 2050 for a certain country is 2,536,248. 28) \_\_\_\_\_
- A) 2 millions + 5 hundred thousands + 3 ten thousands + 6 thousands + 2 tens + 4 ones + 8
  - B) 2 millions + 5 hundred thousands + 3 ten thousands + 6 thousands + 2 hundreds + 4 tens + 8 ones
  - C) 8 millions + 4 hundred thousands + 2 ten thousands + 3 thousands + 6 hundreds + 5 tens + 2 ones
  - D) 2 hundred thousands + 5 ten thousands + 3 thousands + 6 hundreds + 2 tens + 4 ones + 8
- 29) The projected population in 2100 for a certain country is 39,107,003. 29) \_\_\_\_\_
- A) 39 millions + 1 hundred thousands + 0 ten thousands + 7 thousands + 0 hundreds + 0 tens + 3 ones
  - B) 3 ten millions + 0 millions + 9 hundred thousands + 1 ten thousands + 7 thousands + 0 hundreds + 0 tens + 3 ones
  - C) 3 ten millions + 9 millions + 1 hundred thousands + 0 ten thousands + 7 thousands + 0 hundreds + 0 tens + 3 ones
  - D) 3 ten millions + 9 millions + 1 hundred thousands + 0 ten thousands + 0 thousands + 7 hundreds + 0 tens + 3 ones

Write the number in words.

- 30) 135,060 30) \_\_\_\_\_
- A) Thirteen thousand, five hundred six
  - B) One million, thirty-five thousand, sixty
  - C) One hundred thirty-five thousand, sixty
  - D) Thirteen thousand, five hundred sixty
- 31) 9,300,695 31) \_\_\_\_\_
- A) Nine million, three thousand, six hundred ninety-five
  - B) Nine million, three hundred thousand, six hundred ninety-five
  - C) Ninety-three thousand, six hundred ninety-five
  - D) Nine million, thirty thousand, six hundred ninety-five
- 32) 22,000,674 32) \_\_\_\_\_
- A) Twenty-two hundred million, six hundred seventy-four
  - B) Twenty-two million, six hundred seventy-four
  - C) Twenty-two million, six thousand seventy-four
  - D) Two million, two thousand, six hundred seventy-four
- 33) 64,568,009 33) \_\_\_\_\_
- A) Sixty-million, five thousand sixty-eight hundred, nine
  - B) Sixty-four million, five hundred thousand, sixty-eight hundred, nine
  - C) Sixty million, forty-five thousand, sixty-eight hundred and nine
  - D) Sixty-four million, five hundred sixty-eight thousand, nine

- 34) 235,060 34) \_\_\_\_\_  
 A) Two million, thirty-five thousand, sixty  
 B) Two hundred thirty-five thousand, sixty  
 C) Twenty-three thousand, five hundred six  
 D) Twenty-three thousand, five hundred sixty
- 35) 4,200,091 35) \_\_\_\_\_  
 A) Four million, two hundred thousand, ninety-one  
 B) Four million, two hundred ninety-one  
 C) Four million, twenty thousand, ninety-one  
 D) Forty-two thousand, ninety-one
- 36) 5168 36) \_\_\_\_\_  
 A) Five hundred thousand, one hundred sixty-eight  
 B) Fifty-one thousand, sixty-eight  
 C) Five thousand, one hundred sixty-eight  
 D) Five million, one thousand, sixty-eight
- 37) 3072 37) \_\_\_\_\_  
 A) Three thousand, seventy-two  
 B) Three hundred thousand, seventy-two  
 C) Three million, seventy-two  
 D) Thirty thousand, seventy-two
- 38) 24,807 38) \_\_\_\_\_  
 A) Two thousand, four hundred eighty-seven  
 B) Two hundred forty-eight thousand, seven  
 C) Twenty-four thousand, eight hundred seven  
 D) Two million, forty-eight thousand, seven
- 39) 70,146 39) \_\_\_\_\_  
 A) Seventy thousand, one hundred forty-six  
 B) Seven thousand, one hundred forty-six  
 C) Seven hundred one thousand, forty-six  
 D) Seven million, one thousand, forty-six

Write a word name for the number in the sentence.

- 40) There were 961 cars parked in the lot outside a large mall. 40) \_\_\_\_\_  
 A) One hundred sixty-nine  
 B) Nine thousand sixty-one  
 C) Nine hundred sixty-one  
 D) Six hundred nine
- 41) The average population of the suburbs around a certain large city is 72,018. 41) \_\_\_\_\_  
 A) Seventy-two thousand, one hundred eight  
 B) Seven thousand, two hundred eighteen  
 C) Seventy-two hundred, eighteen  
 D) Seventy-two thousand, eighteen
- 42) The control center was suddenly unable to track the satellite when it reached a distance of 128,615 miles from the earth's surface. 42) \_\_\_\_\_  
 A) One hundred twenty-eight million, six hundred fifteen  
 B) One hundred twenty-eight thousand, six hundred fifteen  
 C) Six hundred fifteen thousand, one hundred twenty-eight  
 D) One hundred twenty thousand, eighty-six hundred, fifteen

- 43) One of the statistics to come out of the election was that 45,826,498 people, or about half the population, cast votes. 43) \_\_\_\_\_  
 A) Forty-five billion, eight hundred twenty-six million, four hundred ninety-eight thousand  
 B) Forty-five million, eight hundred thousand, twenty-six hundred, four hundred ninety-eight  
 C) Forty-five thousand, eight hundred twenty-six hundred, four hundred, ninety-eight  
 D) Forty-five million, eight hundred twenty-six thousand, four hundred ninety-eight
- 44) The programmers were working with a graphics file of 406,581,060 bytes. 44) \_\_\_\_\_  
 A) Four hundred six thousand, five hundred eighty-one hundred, sixty  
 B) Four hundred six billion, five hundred eighty-one million, sixty  
 C) Four hundred six million, five hundred eighty-one thousand, sixty  
 D) Four hundred sixty million, five hundred eighty-one thousand, six hundred
- 45) Scientists were predicting the demise of the space colony as the population approached 600,040,000. 45) \_\_\_\_\_  
 A) Six hundred forty million  
 B) Six hundred million, forty hundred  
 C) Six hundred million, forty thousand  
 D) Six hundred billion, forty million
- 46) Astronomers predicted that it would take 900,070,000,100 earth years for the newly found supernova to make one revolution around the center of its galaxy. 46) \_\_\_\_\_  
 A) Nine hundred million, seventy thousand, one hundred  
 B) Ninety billion, seven hundred million, one hundred thousand  
 C) Nine hundred billion, seventy million, one hundred  
 D) Nine hundred seventy thousand, one hundred
- 47) The holder of the "magic number" 444,222,888,555 (which was generated during a college's lottery for distributing student housing) was eligible to choose from among the best dormitories. 47) \_\_\_\_\_  
 A) Five hundred fifty-five million, eight hundred eighty-eight billion, two hundred twenty-two thousand, five hundred fifty-five  
 B) Four hundred forty-four million, two hundred twenty-two billion, eight hundred eighty-eight, five hundred fifty-five thousand  
 C) Eight hundred eighty-eight thousand, two hundred twenty-two billion, four hundred forty-four million, five hundred fifty-five  
 D) Four hundred forty-four billion, two hundred twenty-two million, eight hundred eighty-eight thousand, five hundred fifty-five
- 48) Repeating patterns in numbers like 400,040,004,000 held mystical significance for most of the members of the village. 48) \_\_\_\_\_  
 A) Four hundred million, forty thousand, four  
 B) Four hundred billion, forty million, four thousand  
 C) Four billion, four hundred million, forty thousand  
 D) Forty billion, four hundred million, four
- 49) In rounding 400,000,001,000 to the highest place value, the "1" has no effect on the "4". 49) \_\_\_\_\_  
 A) Four billion, one hundred thousand  
 B) Four hundred million, one hundred  
 C) Four hundred billion, one thousand  
 D) Four hundred thousand, one hundred

Rewrite the following number using digits.

- 50) Eight thousand, one hundred sixty-seven 50) \_\_\_\_\_  
 A) 81,067  
 B) 800,167  
 C) 8167  
 D) 810,067

- |                                                                       |                |                  |                |           |
|-----------------------------------------------------------------------|----------------|------------------|----------------|-----------|
| 51) Thirty-two thousand, nine hundred five                            |                |                  |                | 51) _____ |
| A) 32,950                                                             | B) 32,905      | C) 3295          | D) 320,905     |           |
| 52) Seven thousand, six                                               |                |                  |                | 52) _____ |
| A) 7060                                                               | B) 76,000      | C) 7006          | D) 7600        |           |
| 53) Forty-eight thousand, seventeen                                   |                |                  |                | 53) _____ |
| A) 48,017                                                             | B) 47,180      | C) 48,170        | D) 4817        |           |
| 54) Six hundred thirty-eight thousand,<br>nine hundred ninety-seven   |                |                  |                | 54) _____ |
| A) 638,997                                                            | B) 638,997,000 | C) 638,000       | D) 638,977     |           |
| 55) Two hundred six thousand, one hundred seven                       |                |                  |                | 55) _____ |
| A) 206,107                                                            | B) 260,170     | C) 207,106       | D) 2617        |           |
| 56) One hundred million, six thousand                                 |                |                  |                | 56) _____ |
| A) 100,006,000                                                        | B) 1,600,000   | C) 1006          | D) 106,000,000 |           |
| 57) Ten million, three hundred fifty-four thousand, two hundred three |                |                  |                | 57) _____ |
| A) 1,354,203                                                          | B) 135,423     | C) 10,354,203    | D) 1,354,230   |           |
| 58) Two billion                                                       |                |                  |                | 58) _____ |
| A) 2,000,000,000,000                                                  |                | B) 2,000,000,000 |                |           |
| C) 4,000,000,000                                                      |                | D) 2,000,000     |                |           |

Write standard notation for the number in the sentence.

- |                                                                                                                                             |                |                  |              |           |
|---------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------|--------------|-----------|
| 59) The Johnsons have driven their car forty-eight thousand, eight hundred six miles in the last few years.                                 |                |                  |              | 59) _____ |
| A) 48,860                                                                                                                                   | B) 48,806      | C) 480,806       | D) 4886      |           |
| 60) A certain exotic sport scar costs three hundred twelve thousand, six hundred ninety-nine dollars.                                       |                |                  |              | 60) _____ |
| A) 3,206,990                                                                                                                                | B) 312,699,000 | C) 31,269        | D) 312,699   |           |
| 61) The population of BigTown is one million, three hundred thirty-five thousand, five hundred six.                                         |                |                  |              | 61) _____ |
| A) 133,506                                                                                                                                  | B) 1,335,506   | C) 13,035,560    | D) 1,035,506 |           |
| 62) Don figured out that he had lived two billion, five hundred eighty-two million seconds.                                                 |                |                  |              | 62) _____ |
| A) 2,582,000,000                                                                                                                            |                | B) 2,000,582,000 |              |           |
| C) 2,582,000,000,000                                                                                                                        |                | D) 2,582,000     |              |           |
| 63) The volume of water in the lake is seven billion, eight hundred twenty-one million, ninety-four thousand, six hundred thirteen gallons. |                |                  |              | 63) _____ |
| A) 782,194,613                                                                                                                              |                | B) 7,821,940,613 |              |           |
| C) 7,000,821,094,613                                                                                                                        |                | D) 7,821,094,613 |              |           |

64) The distance between two stars is four trillion, three hundred seventeen billion, nine hundred eighty-eight million miles.

A) 4,317,988,000,000

B) 4,317,988

C) 4,317,988,000,000,000

D) 4,317,988,000

64) \_\_\_\_\_

Add.

$$\begin{array}{r} 78 \\ 65) + 13 \\ \hline \end{array}$$

65) \_\_\_\_\_

A) 91

B) 92

C) 81

D) 90

$$\begin{array}{r} 55 \\ 66) + 37 \\ \hline \end{array}$$

66) \_\_\_\_\_

A) 93

B) 91

C) 82

D) 92

$$\begin{array}{r} 322 \\ 67) + 891 \\ \hline \end{array}$$

67) \_\_\_\_\_

A) 1213

B) 515

C) 415

D) 513

$$\begin{array}{r} 2871 \\ 68) + 8046 \\ \hline \end{array}$$

68) \_\_\_\_\_

A) 9817

B) 10,917

C) 9917

D) 9907

$$\begin{array}{r} 531 \\ 69) + 60 \\ \hline \end{array}$$

69) \_\_\_\_\_

A) 591

B) 1131

C) 592

D) 581

$$\begin{array}{r} 7495 \\ 70) + 173 \\ \hline \end{array}$$

70) \_\_\_\_\_

A) 9225

B) 7568

C) 7668

D) 7658

$$\begin{array}{r} 97,832 \\ 71) + 800 \\ \hline \end{array}$$

71) \_\_\_\_\_

A) 105,832

B) 98,532

C) 98,632

D) 98,642

$$\begin{array}{r} 95,834 \\ 72) + 9569 \\ \hline \end{array}$$

72) \_\_\_\_\_

A) 104,403

B) 105,603

C) 105,403

D) 191,524

|                                                                 |            |            |            |           |
|-----------------------------------------------------------------|------------|------------|------------|-----------|
| $\begin{array}{r} 82,375 \\ 73) + 23,770 \\ \hline \end{array}$ |            |            |            | 73) _____ |
| A) 105,145                                                      | B) 106,145 | C) 116,145 | D) 105,045 |           |
| $\begin{array}{r} 13,475 \\ 74) + 30,329 \\ \hline \end{array}$ |            |            |            | 74) _____ |
| A) 43,804                                                       | B) 316,765 | C) 63,904  | D) 43,794  |           |
| 75) $243 + 214$                                                 |            |            |            | 75) _____ |
| A) 754                                                          | B) 457     | C) 565     | D) 637     |           |
| 76) $3221 + 2424$                                               |            |            |            | 76) _____ |
| A) 5645                                                         | B) 5663    | C) 5546    | D) 5368    |           |
| 77) $11,131 + 13,154$                                           |            |            |            | 77) _____ |
| A) 24,646                                                       | B) 24,645  | C) 24,285  | D) 42,285  |           |
| 78) $703 + 397$                                                 |            |            |            | 78) _____ |
| A) 1100                                                         | B) 990     | C) 1000    | D) 1090    |           |
| 79) $329 + 7503$                                                |            |            |            | 79) _____ |
| A) 7732                                                         | B) 6832    | C) 7842    | D) 7832    |           |
| 80) $508 + 85,281$                                              |            |            |            | 80) _____ |
| A) 90,361                                                       | B) 87,219  | C) 85,789  | D) 84,789  |           |
| 81) $3723 + 8427$                                               |            |            |            | 81) _____ |
| A) 12,150                                                       | B) 12,140  | C) 11,150  | D) 12,050  |           |
| 82) $24,757 + 54,552$                                           |            |            |            | 82) _____ |
| A) 69,309                                                       | B) 79,309  | C) 89,309  | D) 74,310  |           |
| 83) $9024 + 787 + 4$                                            |            |            |            | 83) _____ |
| A) 9915                                                         | B) 9815    | C) 9800    | D) 9825    |           |
| 84) $84,934 + 16,740 + 4243$                                    |            |            |            | 84) _____ |
| A) 104,917                                                      | B) 105,917 | C) 103,912 | D) 140,917 |           |
| 85) $142 + 82 + 4381 + 9$                                       |            |            |            | 85) _____ |
| A) 4631                                                         | B) 4614    | C) 4444    | D) 4597    |           |
| 86) $4233 + 721 + 1 + 66$                                       |            |            |            | 86) _____ |
| A) 4461                                                         | B) 4821    | C) 5021    | D) 5121    |           |
| 87) $88,576 + 22 + 7974 + 87,521$                               |            |            |            | 87) _____ |
| A) 183,993                                                      | B) 194,093 | C) 185,093 | D) 184,093 |           |

$$\begin{array}{r} 88) \quad 7 \\ \quad 6 \\ \quad 9 \\ \quad 7 \\ \quad + 4 \\ \hline \end{array}$$

A) 34

B) 31

C) 33

D) 36

88) \_\_\_\_\_

$$\begin{array}{r} 89) \quad 76 \\ \quad 74 \\ \quad + 63 \\ \hline \end{array}$$

A) 214

B) 213

C) 224

D) 203

89) \_\_\_\_\_

$$\begin{array}{r} 90) \quad 41 \\ \quad 79 \\ \quad 9 \\ \quad 88 \\ \quad + 89 \\ \hline \end{array}$$

A) 387

B) 306

C) 316

D) 329

90) \_\_\_\_\_

$$\begin{array}{r} 91) \quad 786 \\ \quad 54 \\ \quad + 925 \\ \hline \end{array}$$

A) 1765

B) 1895

C) 2251

D) 1665

91) \_\_\_\_\_

$$\begin{array}{r} 92) \quad 9477 \\ \quad 6951 \\ \quad + 2328 \\ \hline \end{array}$$

A) 17,756

B) 18,735

C) 18,546

D) 18,756

92) \_\_\_\_\_

$$\begin{array}{r} 93) \quad 22,318 \\ \quad 1296 \\ \quad + 78,681 \\ \hline \end{array}$$

A) 102,395

B) 103,395

C) 102,295

D) 101,295

93) \_\_\_\_\_

$$\begin{array}{r} 94) \quad 646 \\ \quad 379 \\ \quad 735 \\ \quad 879 \\ \quad + 132 \\ \hline \end{array}$$

A) 2881

B) 2871

C) 2771

D) 2781

94) \_\_\_\_\_

95) 
$$\begin{array}{r} 8310 \\ 443 \\ 74 \\ + 8596 \\ \hline \end{array}$$

95) \_\_\_\_\_

A) 16,323

B) 17,423

C) 16,413

D) 17,313

96) 
$$\begin{array}{r} 966 \\ 797 \\ 45 \\ + 9663 \\ \hline \end{array}$$

96) \_\_\_\_\_

A) 10,371

B) 11,361

C) 11,471

D) 10,461

97) 
$$\begin{array}{r} 56,287,978 \\ 2,518,346 \\ 977,025 \\ + 8,126,634 \\ \hline \end{array}$$

97) \_\_\_\_\_

A) 76,703,208

B) 68,039,983

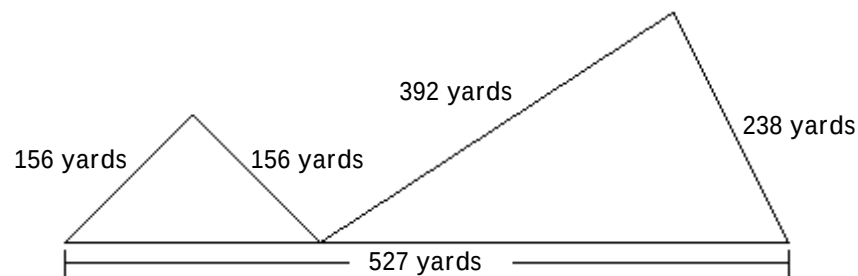
C) 67,909,983

D) 67,897,853

Find the perimeter of the figure.

98)

98) \_\_\_\_\_



A) 1233 yards

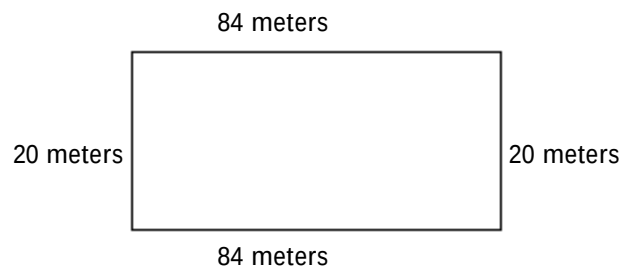
B) 1231 yards

C) 1313 yards

D) 1469 yards

99) A concrete curb is to be built around a parking lot. How many meters of curbing will be needed?

99) \_\_\_\_\_



A) 188 m

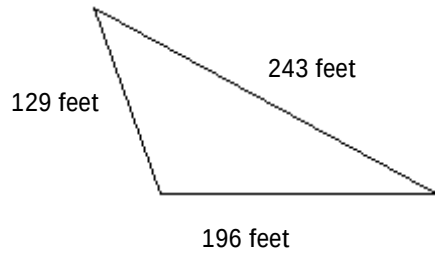
B) 104 m

C) 1680 m

D) 208 m

100) Joe wants to frame his garden with pine lumber. How many feet of lumber will he need?

100) \_\_\_\_\_



A) 558 ft

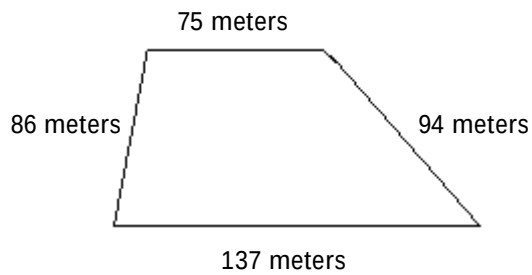
B) 568 ft

C) 48,000 ft

D) 372 ft

101) Maria needs to replace all the fencing around her horse pasture. How many meters of fencing will she need?

101) \_\_\_\_\_



A) 360 m

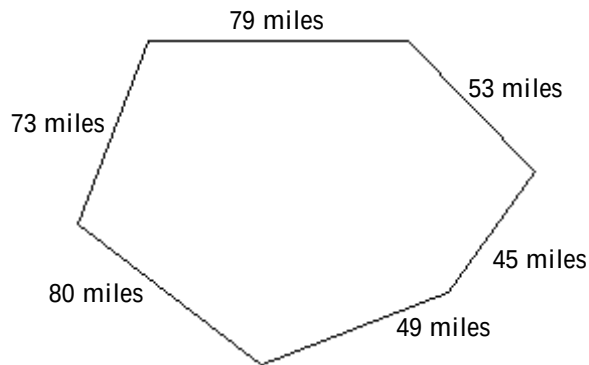
B) 317 m

C) 392 m

D) 338 m

102) The local park district acquired lands to be used for a new dog park. How many miles of fencing are needed to enclose the dog park?

102) \_\_\_\_\_



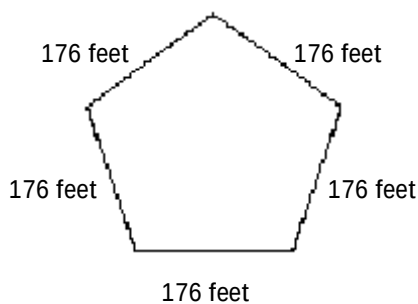
A) 379 mi

B) 399 mi

C) 306 mi

D) 458 mi

- 103) The city plans to frame the local playground with redwood lumber. How many feet of lumber will the city need? 103) \_\_\_\_\_



- A) 1056 ft      B) 880 ft      C) 895 ft      D) 30,976 ft

Subtract.

- 104) 
$$\begin{array}{r} 88 \\ - 42 \\ \hline \end{array}$$
 104) \_\_\_\_\_

- A) 86      B) 130      C) 42      D) 46

- 105) 
$$\begin{array}{r} 97 \\ - 52 \\ \hline \end{array}$$
 105) \_\_\_\_\_

- A) 55      B) 45      C) 41      D) 149

- 106) 
$$\begin{array}{r} 588 \\ - 333 \\ \hline \end{array}$$
 106) \_\_\_\_\_

- A) 249      B) 155      C) 921      D) 255

- 107) 
$$\begin{array}{r} 788 \\ - 43 \\ \hline \end{array}$$
 107) \_\_\_\_\_

- A) 645      B) 745      C) 739      D) 831

- 108) 
$$\begin{array}{r} 8589 \\ - 355 \\ \hline \end{array}$$
 108) \_\_\_\_\_

- A) 234      B) 8124      C) 8234      D) 8224

- 109) 
$$\begin{array}{r} 5857 \\ - 2325 \\ \hline \end{array}$$
 109) \_\_\_\_\_

- A) 5532      B) 3482      C) 3522      D) 3532

- 110) 
$$\begin{array}{r} 6699 \\ - 5232 \\ \hline \end{array}$$
 110) \_\_\_\_\_

- A) 1403      B) 1463      C) 1467      D) 6467

- |      |                                                             |           |           |           |       |
|------|-------------------------------------------------------------|-----------|-----------|-----------|-------|
| 111) | $\begin{array}{r} 66,976 \\ - 41,424 \\ \hline \end{array}$ |           |           | 111)      | _____ |
|      | A) 25,504                                                   | B) 25,552 | C) 25,544 | D) 26,552 |       |
| 112) | $\begin{array}{r} 89,888 \\ - 4124 \\ \hline \end{array}$   |           |           | 112)      | _____ |
|      | A) 85,764                                                   | B) 85,716 | C) 89,764 | D) 85,756 |       |
| 113) | $\begin{array}{r} 83 \\ - 49 \\ \hline \end{array}$         |           |           | 113)      | _____ |
|      | A) 34                                                       | B) 94     | C) 132    | D) 28     |       |
| 114) | $\begin{array}{r} 63 \\ - 15 \\ \hline \end{array}$         |           |           | 114)      | _____ |
|      | A) 58                                                       | B) 42     | C) 48     | D) 78     |       |
| 115) | $\begin{array}{r} 947 \\ - 571 \\ \hline \end{array}$       |           |           | 115)      | _____ |
|      | A) 276                                                      | B) 376    | C) 1518   | D) 374    |       |
| 116) | $\begin{array}{r} 614 \\ - 89 \\ \hline \end{array}$        |           |           | 116)      | _____ |
|      | A) 517                                                      | B) 703    | C) 525    | D) 425    |       |
| 117) | $\begin{array}{r} 5611 \\ - 973 \\ \hline \end{array}$      |           |           | 117)      | _____ |
|      | A) 4616                                                     | B) 4638   | C) 362    | D) 4636   |       |
| 118) | $\begin{array}{r} 6526 \\ - 4275 \\ \hline \end{array}$     |           |           | 118)      | _____ |
|      | A) 2201                                                     | B) 6251   | C) 2241   | D) 2251   |       |
| 119) | $\begin{array}{r} 9359 \\ - 5625 \\ \hline \end{array}$     |           |           | 119)      | _____ |
|      | A) 3684                                                     | B) 3734   | C) 3724   | D) 8734   |       |

$$\begin{array}{r} 120) \quad 82,128 \\ - 55,955 \\ \hline \end{array}$$

120) \_\_\_\_\_

A) 31,173

B) 26,173

C) 26,163

D) 26,123

$$\begin{array}{r} 121) \quad 12,111 \\ - 9655 \\ \hline \end{array}$$

121) \_\_\_\_\_

A) 2454

B) 2456

C) 11,456

D) 2434

$$122) \quad 53 - 36$$

122) \_\_\_\_\_

A) 12

B) 37

C) 27

D) 17

$$123) \quad 585 - 321$$

123) \_\_\_\_\_

A) 274

B) 364

C) 248

D) 264

$$124) \quad 342 - 58$$

124) \_\_\_\_\_

A) 384

B) 296

C) 284

D) 274

$$125) \quad 9909 - 3036$$

125) \_\_\_\_\_

A) 6963

B) 6873

C) 6833

D) 7373

$$126) \quad 7149 - 74$$

126) \_\_\_\_\_

A) 7075

B) 7073

C) 7025

D) 7223

$$127) \quad 54,079 - 11,689$$

127) \_\_\_\_\_

A) 43,790

B) 42,290

C) 42,390

D) 42,790

$$128) \quad 65,001 - 5853$$

128) \_\_\_\_\_

A) 59,148

B) 63,148

C) 58,848

D) 66,968

$$129) \quad 55,656 - 6652$$

129) \_\_\_\_\_

A) 53,004

B) 49,004

C) 49,304

D) 56,824

$$130) \quad 67,592 - 67$$

130) \_\_\_\_\_

A) 67,659

B) 67,525

C) 67,175

D) 67,025

$$131) \quad 76,438 - 347$$

131) \_\_\_\_\_

A) 75,741

B) 76,785

C) 76,091

D) 75,591

Multiply.

$$\begin{array}{r} 132) \quad 98 \\ \times 3 \\ \hline \end{array}$$

132) \_\_\_\_\_

A) 274

B) 294

C) 281

D) 394

- 133) 
$$\begin{array}{r} 543 \\ \times 5 \\ \hline \end{array}$$
 133) \_\_\_\_\_
- A) 2725      B) 2815      C) 2615      D) 2715
- 134) 
$$\begin{array}{r} 8939 \\ \times 4 \\ \hline \end{array}$$
 134) \_\_\_\_\_
- A) 35,856      B) 35,656      C) 35,766      D) 35,756
- 135) 
$$\begin{array}{r} 60,436 \\ \times 6 \\ \hline \end{array}$$
 135) \_\_\_\_\_
- A) 362,616      B) 362,586      C) 362,606      D) 362,716
- 136)  $4 \cdot 403$  136) \_\_\_\_\_
- A) 172      B) 1612      C) 1720      D) 28
- 137)  $9 \cdot 847$  137) \_\_\_\_\_
- A) 7523      B) 7614      C) 7623      D) 7613
- 138)  $2(3016)$  138) \_\_\_\_\_
- A) 5932      B) 6042      C) 6132      D) 6032
- 139) 
$$\begin{array}{r} 25 \\ \times 43 \\ \hline \end{array}$$
 139) \_\_\_\_\_
- A) 1175      B) 1075      C) 1085      D) 1065
- 140)  $(16)(61)$  140) \_\_\_\_\_
- A) 966      B) 986      C) 976      D) 1076
- 141)  $(43)(491)$  141) \_\_\_\_\_
- A) 21,213      B) 21,123      C) 21,103      D) 21,113
- 142)  $(494)(83)$  142) \_\_\_\_\_
- A) 41,012      B) 41,002      C) 40,992      D) 41,102
- 143) 
$$\begin{array}{r} 835 \\ \times 22 \\ \hline \end{array}$$
 143) \_\_\_\_\_
- A) 18,360      B) 18,370      C) 18,380      D) 18,470

144)

$$\begin{array}{r} 251 \\ \times 864 \\ \hline \end{array}$$

A) 216,864

B) 216,964

C) 216,874

D) 216,854

144)

\_\_\_\_\_

145)

$$\begin{array}{r} 1842 \\ \times 265 \\ \hline \end{array}$$

A) 488,130

B) 488,230

C) 498,130

D) 487,130

145)

\_\_\_\_\_

146)

$$\begin{array}{r} 8168 \\ \times 6044 \\ \hline \end{array}$$

A) 49,367,392

B) 49,366,392

C) 49,377,392

D) 49,367,492

146)

\_\_\_\_\_

147)

$$\begin{array}{r} 60 \\ \times 2 \\ \hline \end{array}$$

A) 130

B) 110

C) 100

D) 120

147)

\_\_\_\_\_

148)

$$\begin{array}{r} 400 \\ \times 4 \\ \hline \end{array}$$

A) 600

B) 2600

C) 1600

D) 1500

148)

\_\_\_\_\_

149)

$$\begin{array}{r} 350 \\ \times 5 \\ \hline \end{array}$$

A) 750

B) 1750

C) 11,750

D) 2750

149)

\_\_\_\_\_

150)

$$\begin{array}{r} 949 \\ \times 50 \\ \hline \end{array}$$

A) 48,450

B) 57,450

C) 47,450

D) 46,450

150)

\_\_\_\_\_

151)

$$\begin{array}{r} 6826 \\ \times 90 \\ \hline \end{array}$$

A) 624,340

B) 613,340

C) 614,340

D) 615,340

151)

\_\_\_\_\_

152)

$$\begin{array}{r} 300 \\ \times 900 \\ \hline \end{array}$$

A) 269,000

B) 271,000

C) 280,000

D) 270,000

152) \_\_\_\_\_

153)

$$\begin{array}{r} 25,000 \\ \times 5000 \\ \hline \end{array}$$

A) 124,999,501

B) 124,999,000

C) 125,000,000

D) 125,001,000

153) \_\_\_\_\_

154)  $600 \cdot 30$ 

A) 17,990

B) 17,996

C) 18,000

D) 18,010

154) \_\_\_\_\_

155)  $8700 \cdot 800$ 

A) 6,961,000

B) 6,959,501

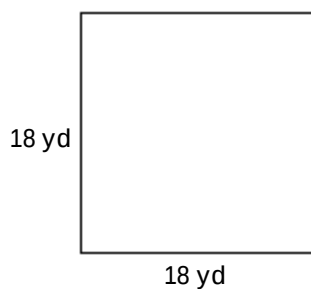
C) 6,960,000

D) 6,959,000

155) \_\_\_\_\_

Find the area of the region.

156)



A) 319 sq yd

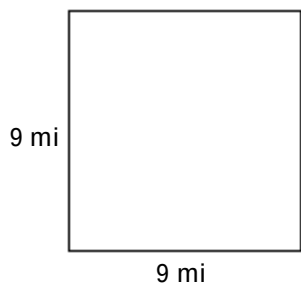
B) 72 sq yd

C) 648 sq yd

D) 324 sq yd

156) \_\_\_\_\_

157)



A) 84 sq mi

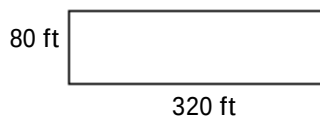
B) 77 sq mi

C) 81 sq mi

D) 36 sq mi

157) \_\_\_\_\_

158)



A) 25,610 sq ft

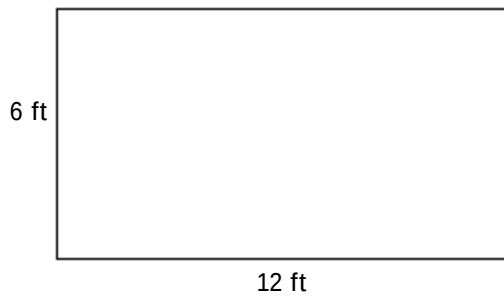
B) 25,590 sq ft

C) 25,600 sq ft

D) 800 sq ft

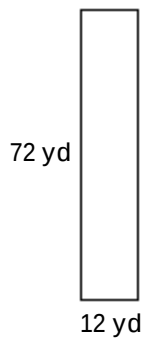
158) \_\_\_\_\_

- 159) A homeowner is planning a vegetable garden and needs to know the area to determine how much compost to add. Find the area of the rectangular garden. 159) \_\_\_\_\_



- A) 108 sq ft      B) 36 sq ft      C) 144 sq ft      D) 72 sq ft

- 160) A section of property is to be cleared and planted with grass. Find the area of the new lawn. 160) \_\_\_\_\_



- A) 854 sq yd      B) 720 sq yd      C) 864 sq yd      D) 84 sq yd

Divide, if possible. If not possible, write "not defined."

- 161)  $\frac{32}{4}$  161) \_\_\_\_\_

- A) 7 R3      B) 8      C) 7 R4      D) 9

- 162)  $\frac{8}{0}$  162) \_\_\_\_\_

- A) 1      B) 8      C) 0      D) Not defined

- 163)  $61 \overline{)0}$  163) \_\_\_\_\_

- A) 0      B) 61      C) 1      D) Not defined

- 164)  $492 \div 6$  164) \_\_\_\_\_

- A) 82 R 5      B) 82      C) 81 R 5      D) 81

- 165)  $7983 \div 9$  165) \_\_\_\_\_

- A) 889 R 8      B) 889      C) 887      D) 887 R 1

- 166)  $4 \overline{)4488}$  166) \_\_\_\_\_

- A) 1122 R 3      B) 1122      C) 1120 R 1      D) 1120

|                          |       |       |          |            |
|--------------------------|-------|-------|----------|------------|
| 167) $7 \overline{)227}$ |       |       |          | 167) _____ |
| A) 32 R3                 | B) 35 | C) 32 | D) 32 R6 |            |

|                          |          |       |       |            |
|--------------------------|----------|-------|-------|------------|
| 168) $4 \overline{)185}$ |          |       |       | 168) _____ |
| A) 46 R3                 | B) 46 R1 | C) 46 | D) 47 |            |

|                    |           |        |           |            |
|--------------------|-----------|--------|-----------|------------|
| 169) $1834 \div 4$ |           |        |           | 169) _____ |
| A) 460             | B) 458 R3 | C) 458 | D) 458 R2 |            |

|                           |        |           |           |            |
|---------------------------|--------|-----------|-----------|------------|
| 170) $5 \overline{)1468}$ |        |           |           | 170) _____ |
| A) 293 R3                 | B) 293 | C) 292 R8 | D) 293 R2 |            |

Divide.

|                          |            |         |           |            |
|--------------------------|------------|---------|-----------|------------|
| 171) $1,920,000 \div 10$ |            |         |           | 171) _____ |
| A) 19,200,000            | B) 192,000 | C) 1920 | D) 19,200 |            |

|                           |           |           |            |            |
|---------------------------|-----------|-----------|------------|------------|
| 172) $18 \overline{)540}$ |           |           |            | 172) _____ |
| A) 30                     | B) 31 R 5 | C) 31 R 8 | D) 30 R 10 |            |

|                    |       |           |           |            |
|--------------------|-------|-----------|-----------|------------|
| 173) $325 \div 20$ |       |           |           | 173) _____ |
| A) 15 R 11         | B) 16 | C) 14 R 7 | D) 16 R 5 |            |

|                     |        |             |             |            |
|---------------------|--------|-------------|-------------|------------|
| 174) $7106 \div 38$ |        |             |             | 174) _____ |
| A) 188              | B) 187 | C) 187 R 29 | D) 188 R 28 |            |

|                            |           |            |       |            |
|----------------------------|-----------|------------|-------|------------|
| 175) $48 \overline{)1363}$ |           |            |       | 175) _____ |
| A) 28 R 19                 | B) 31 R 5 | C) 31 R 40 | D) 28 |            |

|                              |             |        |        |            |
|------------------------------|-------------|--------|--------|------------|
| 176) $59 \overline{)36,757}$ |             |        |        | 176) _____ |
| A) 633 R 24                  | B) 628 R 16 | C) 623 | D) 613 |            |

|                              |       |        |            |            |
|------------------------------|-------|--------|------------|------------|
| 177) $41 \overline{)34,562}$ |       |        |            | 177) _____ |
| A) 842 R40                   | B) 40 | C) 842 | D) 842 R23 |            |

|                      |       |            |            |            |
|----------------------|-------|------------|------------|------------|
| 178) $6620 \div 145$ |       |            |            | 178) _____ |
| A) 40 R 95           | B) 45 | C) 45 R 95 | D) 48 R 45 |            |

|                                |        |        |            |            |
|--------------------------------|--------|--------|------------|------------|
| 179) $430 \overline{)402,696}$ |        |        |            | 179) _____ |
| A) 936 R216                    | B) 936 | C) 216 | D) 936 R26 |            |

|                                  |         |         |              |            |
|----------------------------------|---------|---------|--------------|------------|
| 180) $616 \overline{)4,316,312}$ |         |         |              | 180) _____ |
| A) 7007 R 74                     | B) 6997 | C) 7007 | D) 6997 R 74 |            |

Round as indicated.

|                             |        |        |        |            |
|-----------------------------|--------|--------|--------|------------|
| 181) 309 to the nearest ten |        |        |        | 181) _____ |
| A) 410                      | B) 300 | C) 310 | D) 320 |            |

- |                                    |              |              |              |              |            |
|------------------------------------|--------------|--------------|--------------|--------------|------------|
| 182) 5295 to the nearest ten       | A) 5400      | B) 5300      | C) 5290      | D) 5310      | 182) _____ |
| 183) 6899 to the nearest ten       | A) 7000      | B) 6890      | C) 6900      | D) 6910      | 183) _____ |
| 184) 25,638 to the nearest ten     | A) 25,740    | B) 25,640    | C) 25,630    | D) 25,650    | 184) _____ |
| 185) 467,868 to the nearest ten    | A) 467,970   | B) 467,870   | C) 467,850   | D) 467,880   | 185) _____ |
| 186) 530 to the nearest hundred    | A) 400       | B) 510       | C) 600       | D) 500       | 186) _____ |
| 187) 576 to the nearest hundred    | A) 500       | B) 700       | C) 600       | D) 590       | 187) _____ |
| 188) 3817 to the nearest hundred   | A) 3900      | B) 3810      | C) 3800      | D) 3700      | 188) _____ |
| 189) 5579 to the nearest hundred   | A) 5590      | B) 5600      | C) 5700      | D) 5500      | 189) _____ |
| 190) 74,913 to the nearest hundred | A) 75,000    | B) 74,800    | C) 74,910    | D) 74,900    | 190) _____ |
| Round to the nearest thousand.     |              |              |              |              |            |
| 191) 9290                          | A) 9300      | B) 9000      | C) 9290      | D) 10000     | 191) _____ |
| 192) 6651                          | A) 8000      | B) 6650      | C) 6700      | D) 7000      | 192) _____ |
| 193) 15,171                        | A) 15,100    | B) 15,000    | C) 25,000    | D) 16,000    | 193) _____ |
| 194) 83,002                        | A) 83,000    | B) 83,010    | C) 84,000    | D) 83,100    | 194) _____ |
| 195) 223,414                       | A) 220,000   | B) 223,000   | C) 222,000   | D) 223,400   | 195) _____ |
| 196) 1,893,473                     | A) 1,893,500 | B) 1,890,000 | C) 1,893,000 | D) 1,894,000 | 196) _____ |

Estimate the sum or difference by first rounding to the nearest ten.

$$\begin{array}{r} 197) \quad 84 \\ + 93 \\ \hline \end{array}$$

197) \_\_\_\_\_

A) 177

B) 200

C) 180

D) 170

$$\begin{array}{r} 198) \quad 32 \\ 86 \\ 94 \\ 31 \\ + 33 \\ \hline \end{array}$$

198) \_\_\_\_\_

A) 300

B) 276

C) 270

D) 280

$$\begin{array}{r} 199) \quad 76 \\ - 43 \\ \hline \end{array}$$

199) \_\_\_\_\_

A) 120

B) 30

C) 33

D) 40

$$\begin{array}{r} 200) \quad 6957 \\ - 4523 \\ \hline \end{array}$$

200) \_\_\_\_\_

A) 2430

B) 2400

C) 2434

D) 2440

$$\begin{array}{r} 201) \quad 513 \\ - 58 \\ \hline \end{array}$$

201) \_\_\_\_\_

A) 460

B) 455

C) 450

D) 500

Estimate the sum as indicated. Then answer the question.

202) Estimate the following sum by first rounding to the nearest ten. Does the estimate give you reason to doubt the stated sum?

202) \_\_\_\_\_

$$\begin{array}{r} 48 \\ 63 \\ 21 \\ + 37 \\ \hline 169 \end{array}$$

A) Estimate: 170 ; no

B) Estimate: 140 ; yes

C) Estimate: 180 ; yes

D) Estimate: 160 ; no

203) Estimate the following sum by first rounding to the nearest ten. Does the estimate give you reason to doubt the stated sum? 203) \_\_\_\_\_

$$\begin{array}{r} 49 \\ 51 \\ 76 \\ + 18 \\ \hline 174 \end{array}$$

- A) Estimate: 210 ; yes  
C) Estimate: 200 ; no

- B) Estimate: 200 ; yes  
D) Estimate: 210 ; no

204) Estimate the following sum by first rounding to the nearest ten. Does the estimate give you reason to doubt the stated sum? 204) \_\_\_\_\_

$$\begin{array}{r} 537 \\ 23 \\ 489 \\ + 112 \\ \hline 1161 \end{array}$$

- A) Estimate: 1160 ; no  
C) Estimate: 1010 ; yes

- B) Estimate: 1140 ; no  
D) Estimate: 1230 ; yes

205) Estimate the following sum by first rounding to the nearest ten. Does the estimate give you reason to doubt the stated sum? 205) \_\_\_\_\_

$$\begin{array}{r} 3864 \\ 2739 \\ 637 \\ + 5382 \\ \hline 12,822 \end{array}$$

- A) Estimate: 12,850 ; no  
C) Estimate: 12,910 ; yes

- B) Estimate: 12,620 ; yes  
D) Estimate: 12,820 ; no

206) Estimate the following sum by first rounding to the nearest ten. Does the estimate give you reason to doubt the stated sum? 206) \_\_\_\_\_

$$\begin{array}{r} 1864 \\ 5392 \\ 73 \\ + 5387 \\ \hline 12,716 \end{array}$$

- A) Estimate: 12,710 ; yes  
C) Estimate: 12,950 ; no

- B) Estimate: 12,950 ; yes  
D) Estimate: 12,710 ; no

207) Estimate the following sum by first rounding to the nearest hundred. Does the estimate give you reason to doubt the stated sum? 207) \_\_\_\_\_

$$\begin{array}{r} 3864 \\ 2739 \\ 637 \\ + 5382 \\ \hline 12,822 \end{array}$$

- A) Estimate: 12,600 ; yes  
C) Estimate: 12,900 ; yes

- B) Estimate: 12,600 ; no  
D) Estimate: 12,900 ; no

208) Estimate the following sum by first rounding to the nearest hundred. Does the estimate give you reason to doubt the stated sum? 208) \_\_\_\_\_

$$\begin{array}{r} 13,864 \\ 3273 \\ 34,637 \\ + 732 \\ \hline 52,506 \end{array}$$

- A) Estimate: 52,600 ; yes  
C) Estimate: 52,500 ; yes

- B) Estimate: 52,500 ; no  
D) Estimate: 52,600 ; no

209) Estimate the following sum by first rounding to the nearest hundred. Does the estimate give you reason to doubt the stated sum? 209) \_\_\_\_\_

$$\begin{array}{r} 38,647 \\ 27,392 \\ 6373 \\ + 53,829 \\ \hline 138,241 \end{array}$$

- A) Estimate: 138,200 ; yes  
C) Estimate: 138,200 ; no

- B) Estimate: 126,200 ; yes  
D) Estimate: 126,200 ; no

210) Estimate the following sum by first rounding to the nearest hundred. Does the estimate give you reason to doubt the stated sum? 210) \_\_\_\_\_

$$\begin{array}{r} 38,647 \\ 27,392 \\ 6371 \\ + 53,820 \\ \hline 126,230 \end{array}$$

- A) Estimate: 126,200 ; yes  
C) Estimate: 126,200 ; no

- B) Estimate: 126,400 ; no  
D) Estimate: 126,400 ; yes

211) Estimate the following sum by first rounding to the nearest hundred. Does the estimate give you reason to doubt the stated sum? 211) \_\_\_\_\_

$$\begin{array}{r} 38,647 \\ 27,392 \\ 6371 \\ + 53,820 \\ \hline 122,230 \end{array}$$

- A) Estimate: 126,200 ; no  
C) Estimate: 122,200 ; yes

- B) Estimate: 122,200 ; no  
D) Estimate: 126,200 ; yes

Estimate the sum or difference by first rounding as indicated.

212) Estimate by first rounding to the nearest hundred. 212) \_\_\_\_\_

$$\begin{array}{r} 4466 \\ + 4265 \\ \hline \end{array}$$

- A) 8700                      B) 8800                      C) 9000                      D) 8731

213) Estimate by first rounding to the nearest hundred. 213) \_\_\_\_\_

$$\begin{array}{r} 726 \\ 998 \\ 802 \\ 601 \\ + 735 \\ \hline \end{array}$$

- A) 3860                      B) 3862                      C) 3800                      D) 3900

214) Estimate by first rounding to the nearest hundred. 214) \_\_\_\_\_

$$\begin{array}{r} 389 \\ - 247 \\ \hline \end{array}$$

- A) 600                      B) 100                      C) 142                      D) 200

215) Estimate by first rounding to the nearest hundred. 215) \_\_\_\_\_

$$\begin{array}{r} 8377 \\ - 1644 \\ \hline \end{array}$$

- A) 7000                      B) 6733                      C) 6800                      D) 6700

216) Estimate by first rounding to the nearest thousand. 216) \_\_\_\_\_

$$\begin{array}{r} 9770 \\ 3663 \\ 2796 \\ + 6133 \\ \hline \end{array}$$

- A) 23,000                      B) 22,400                      C) 22,000                      D) 22,500

217) Estimate by first rounding to the nearest thousand.

217) \_\_\_\_\_

$$\begin{array}{r} 2482 \\ 4466 \\ 6992 \\ + 5412 \\ \hline \end{array}$$

A) 19,500

B) 19,400

C) 18,000

D) 19,000

218) Estimate by first rounding to the nearest thousand.

218) \_\_\_\_\_

$$\begin{array}{r} 62,295 \\ - 28,572 \\ \hline \end{array}$$

A) 33,800

B) 34,000

C) 33,000

D) 33,700

219) Estimate by first rounding to the nearest thousand.

219) \_\_\_\_\_

$$\begin{array}{r} 73,627 \\ - 30,351 \\ \hline \end{array}$$

A) 43,000

B) 43,200

C) 43,300

D) 44,000

Estimate the answer by rounding as indicated.

220) Estimate by first rounding to the nearest ten.

220) \_\_\_\_\_

$$\begin{array}{r} 57 \\ \times 89 \\ \hline \end{array}$$

A) 5400

B) 5070

C) 150

D) 5073

221) Estimate by first rounding to the nearest hundred.

221) \_\_\_\_\_

$$\begin{array}{r} 121 \\ \times 949 \\ \hline \end{array}$$

A) 114,800

B) 90,000

C) 114,829

D) 1000

222) Estimate by first rounding to the nearest ten.

222) \_\_\_\_\_

$$837 \div 21$$

A) 55

B) 45

C) 42

D) 44

223) Estimate by first rounding to the nearest ten.

223) \_\_\_\_\_

$$362 \div 56$$

A) 5

B) 19

C) 13

D) 6

224) Estimate by first rounding to the nearest hundred.

224) \_\_\_\_\_

$$2504 \div 511$$

A) 3

B) 5

C) 6

D) 9

225) Estimate by first rounding to the nearest hundred.

225) \_\_\_\_\_

$$20,793 \div 771$$

A) 26

B) 15

C) 52

D) 29

Use the chart below to answer the question.

| OPTION                           | COST        |
|----------------------------------|-------------|
| Monitor                          |             |
| a) 17" (15.9" viewable)          | Included    |
| b) VF 720 (increased visibility) | \$95 extra  |
| c) No monitor                    | \$130 less  |
| d) Flatscreen VPF 1500, 15"      | \$780 extra |
| Memory                           |             |
| e) 64 MB, 133 MHz, SDRAM         | Included    |
| f) 96 MB of memory               | \$165 extra |
| Software                         |             |
| g) T-Shirt Maker                 | \$85        |
| h) Deluxe Greeting Card          | \$155       |

- 226) If the cost of the computer is \$1099, estimate the cost, to the nearest hundred, of the computer with options (c), (e), and (h). 226) \_\_\_\_\_
- A) \$100                      B) \$0                      C) \$1200                      D) \$1100

- 227) Matt has a budget of \$1619. Can he afford to buy the computer for \$999 with options (a), (f), and (h)? 227) \_\_\_\_\_
- A) Yes                      B) No

- 228) Matt has a budget of \$1849. Can he afford to buy the computer for \$1299 with options (a), (f), and (g)? 228) \_\_\_\_\_
- A) No                      B) Yes

Estimate by rounding as indicated.

- 229) Jane runs 21 miles a day. Estimate the total number of miles Jane runs in 88 days by rounding each number to the nearest ten. 229) \_\_\_\_\_
- A) 2700 mi                      B) 1800 mi                      C) 1600 mi                      D) 7200 mi

- 230) An appliance store sells 17 refrigerators a week. Estimate the total amount of money the store makes in a week if each refrigerator costs \$727. Round the number of refrigerators to the nearest ten and the cost to the nearest hundred. 230) \_\_\_\_\_
- A) \$14,000                      B) \$8000                      C) \$16,000                      D) \$7000

- 231) James' drive from home to work is 30 miles one way. If in a month he goes to work 22 days, then how many miles does he drive going from home to work and back in one month? Estimate by rounding both numbers to the nearest ten. 231) \_\_\_\_\_
- A) 1200 mi                      B) 1750 mi                      C) 1500 mi                      D) 900 mi

- 232) An assembly line can produce 437 bicycles each hour. Estimate the number of bicycles produced in 21 hours by rounding the number of bicycles to the nearest hundred and the number of hours to the nearest ten. Also find the exact number of bicycles produced. 232) \_\_\_\_\_
- A) Estimate: 9240 bicycles; exact: 8740 bicycles  
 B) Estimate: 176,000 bicycles; exact: 8740 bicycles  
 C) Estimate: 9240 bicycles; exact: 9177 bicycles  
 D) Estimate: 8000 bicycles; exact: 9177 bicycles

- 233) Lisa stashed in an envelope on her dresser \$338 each week for 7 weeks. Estimate the total amount she saved by rounding the weekly amount to the nearest hundred. Also find the exact amount she saved.
- A) Estimate: \$2100; exact: \$2366  
B) Estimate: \$2380; exact: \$2380  
C) Estimate: \$2100; exact: \$2380  
D) Estimate: \$2380; exact: \$2366
- 233) \_\_\_\_\_

- 234) There are 27,878,400 square feet in one square mile. How many square feet are there in 82 square miles? Estimate by rounding the number of square feet in one square mile to the nearest ten million and the number of square miles to the nearest ten. Also find the exact answer. 234) \_\_\_\_\_
- A) Estimate: 2,240,000,000 sq ft; exact: 2,286,028,800 sq ft
- B) Estimate: 2,240,000,000 sq ft; exact: 2,285,996,000 sq ft
- C) Estimate: 2,400,000,000 sq ft; exact: 2,286,028,800 sq ft
- D) Estimate: 2,400,000,000 sq ft; exact: 2,285,996,000 sq ft

Use  $<$  or  $>$  for  $\square$  to write a true sentence. Draw a number line if necessary.

- 235)  $26 \square 31$   
A) > B) <

- 236)  $32 \square 27$  236) \_\_\_\_\_  
 A) < B) >

- 237)  $0 \square 37$  237) \_\_\_\_\_  
 A) > B) <

- 238)  $20 \square 0$   
A) > B) <

- 239)  $88 \square 134$  239) \_\_\_\_\_  
 A) < B) >

- 240)  $287 \square 26$   
A) > B) <

- 241)  $109 \square 107$  241) \_\_\_\_\_  
 A) > B) <

- 242)  $870 \square 914$  242) \_\_\_\_\_  
 A) < B) >

- 243)  $1205 \square 1207$   
A) < B) >

Use the given table or graph to write the inequality described.

244)

244) \_\_\_\_\_

| Lunch items          | Calories | Grams of fat |
|----------------------|----------|--------------|
| 1 glass of milk (2%) | 120      | 5            |
| Tuna salad           | 350      | 22           |
| 1 apple              | 80       | 1            |
| 1 bagel              | 165      | 1            |
| Bowl of soup         | 155      | 3            |

Use an inequality to compare the number of calories in an apple and a bagel.

A)  $80 < 165$

B)  $80 < 155$

C)  $155 < 165$

D)  $80 > 165$

245)

245) \_\_\_\_\_

| Lunch items          | Calories | Grams of fat |
|----------------------|----------|--------------|
| 1 glass of milk (2%) | 120      | 5            |
| Tuna salad           | 350      | 22           |
| 1 apple              | 80       | 1            |
| 1 bagel              | 165      | 1            |
| Bowl of soup         | 155      | 3            |

Use an inequality to compare the number of grams of fat in tuna salad and a bowl of soup.

A)  $155 < 350$

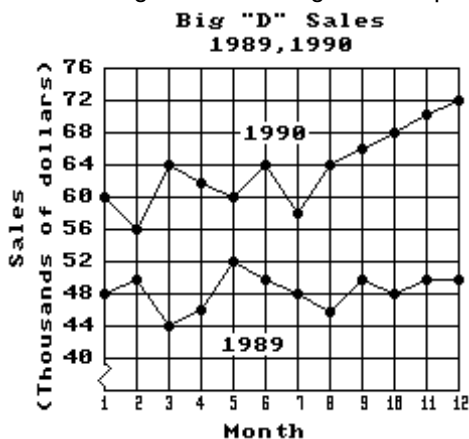
B)  $22 > 3$

C)  $3 > 22$

D)  $350 > 155$

246) The sales figures for the Big "D" Company area shown below in a line plot.

246) \_\_\_\_\_



Use an inequality to compare the sales for July 1989 and July 1990.

A)  $\$46,000 < \$64,000$

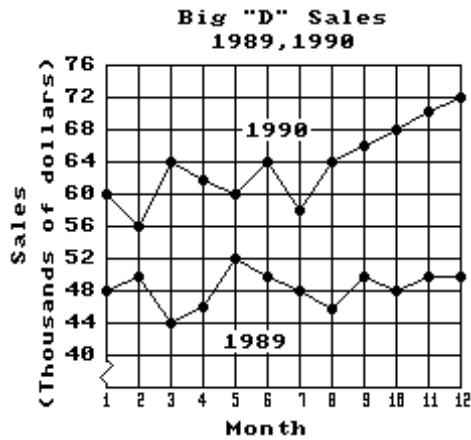
B)  $\$48,000 < \$58,000$

C)  $\$64,000 > \$50,000$

D)  $\$50,000 < \$64,000$

247) The sales figures for the Big "D" Company area shown below in a line plot.

247) \_\_\_\_\_

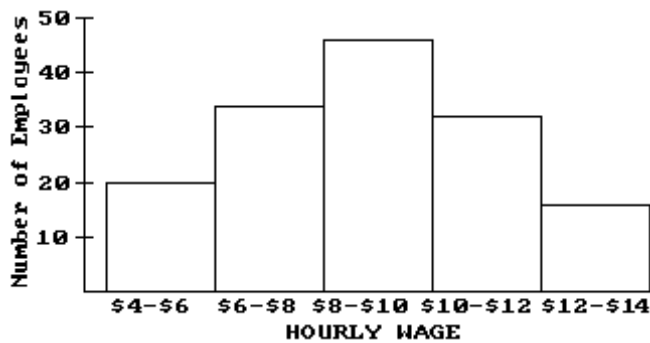


Use an inequality to compare the sales for January 1990 and December 1990.

- A)  $\$72,000 > \$60,000$       B)  $\$48,000 < \$60,000$   
 C)  $\$70,000 > \$66,000$       D)  $\$50,000 > \$48,000$

248) The wages of the employees of a company are presented in this graph.

248) \_\_\_\_\_

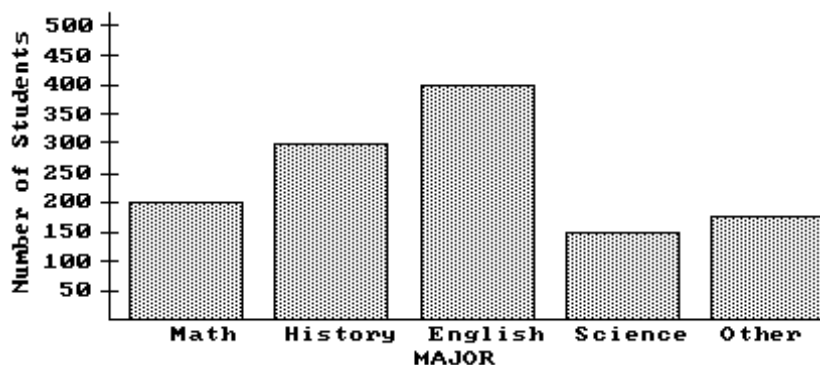


Use an inequality to compare the number of employees who make \$4-\$6 and those who make \$8-\$10.

- A)  $25 < 40$       B)  $20 < 45$       C)  $20 < 34$       D)  $30 > 20$

249) The bar graph below shows the number of students by major in the College of Arts and Sciences.

249) \_\_\_\_\_



Use an inequality to compare the number of math and english majors.

A)  $300 < 400$

B)  $400 > 200$

C)  $200 > 150$

D)  $300 > 200$

Solve by trial.

250)  $x + 0 = 7$

A) 7

B) 9

C) 0

D) 6

250) \_\_\_\_\_

251)  $x + 7 = 13$

A) 8

B) 6

C) 10

D) 5

251) \_\_\_\_\_

252)  $x - 4 = 14$

A) 8

B) 20

C) 18

D) 23

252) \_\_\_\_\_

253)  $y \cdot 2 = 0$

A) 0

B) 3

C) 1

D) 2

253) \_\_\_\_\_

254)  $y \cdot 2 = 10$

A) 4

B) 0

C) 6

D) 5

254) \_\_\_\_\_

255)  $54 \div n = 18$

A) 5

B) 3

C) 1

D) 4

255) \_\_\_\_\_

256)  $72 \div n = 2$

A) 34

B) 36

C) 360

D) 37

256) \_\_\_\_\_

Solve.

257)  $x = 2644 + 2530$

A) 5174

B) 6174

C) 5137

D) 5074

257) \_\_\_\_\_

258)  $x = 85,355 + 6176$

A) 91,588

B) 91,531

C) 91,431

D) 90,531

258) \_\_\_\_\_

259)  $x = 485 - 218$

A) 257

B) 267

C) 703

D) 277

259) \_\_\_\_\_

|                                    |            |           |         |            |
|------------------------------------|------------|-----------|---------|------------|
| 260) $9720 - 2908 = x$<br>A) 6812  | B) 12,628  | C) 6712   | D) 6912 | 260) _____ |
| 261) $y = 5 \cdot 5$<br>A) 25      | B) 35      | C) 250    | D) 23   | 261) _____ |
| 262) $z = 79 \cdot 68$<br>A) 5372  | B) 537,200 | C) 53,720 | D) 147  | 262) _____ |
| 263) $162 \div 54 = q$<br>A) 13    | B) 8748    | C) 108    | D) 3    | 263) _____ |
| 264) $x = 144 \div 2$<br>A) 288    | B) 720     | C) 70     | D) 72   | 264) _____ |
| 265) $x + 3 = 21$<br>A) 8          | B) 63      | C) 18     | D) 24   | 265) _____ |
| 266) $9 + y = 29$<br>A) 20         | B) 38      | C) 261    | D) 18   | 266) _____ |
| 267) $20 = 2 + x$<br>A) 24         | B) 8       | C) 28     | D) 18   | 267) _____ |
| 268) $36 + x = 91$<br>A) 3276      | B) 127     | C) 55     | D) 146  | 268) _____ |
| 269) $x + 65 = 187$<br>A) 122      | B) 12,155  | C) 309    | D) 252  | 269) _____ |
| 270) $x + 187 = 716$<br>A) 529     | B) 133,892 | C) 539    | D) 903  | 270) _____ |
| 271) $164 + y = 889$<br>A) 145,796 | B) 725     | C) 1053   | D) 723  | 271) _____ |
| 272) $626 = 177 + x$<br>A) 439     | B) 449     | C) 459    | D) 455  | 272) _____ |
| 273) $42 = 42 + m$<br>A) 1         | B) 0       | C) 21     | D) 84   | 273) _____ |
| 274) $3467 + y = 4500$<br>A) 1409  | B) 1033    | C) 5533   | D) 1376 | 274) _____ |
| 275) $5287 = 555 + t$<br>A) 4732   | B) 3555    | C) 5842   | D) 4082 | 275) _____ |

- 276)  $8 \cdot x = 48$  276) \_\_\_\_\_  
 A) 5 B) 6 C) 48 D) 384
- 277)  $5 \cdot y = 75$  277) \_\_\_\_\_  
 A) 16 B) 17 C) 18 D) 15
- 278)  $105 = m \cdot 7$  278) \_\_\_\_\_  
 A) 7 B) 15 C) 735 D) 105
- 279)  $656 = 4 \cdot w$  279) \_\_\_\_\_  
 A) 652 B) 4 C) 164 D) 2624
- 280)  $5 \cdot z = 2120$  280) \_\_\_\_\_  
 A) 426 B) 420 C) 424 D) 422
- 281)  $960 = n \cdot 16$  281) \_\_\_\_\_  
 A) 60 B) 960 C) 15,360 D) 944
- 282)  $17 \cdot x = 1411$  282) \_\_\_\_\_  
 A) 80 B) 78 C) 82 D) 83
- 283)  $134 \cdot m = 26,264$  283) \_\_\_\_\_  
 A) 196 B) 26,130 C) 197 D) 26,129

Solve the problem.

- 284) During the last four months of a recent year, Annie's Natural Food Store reported the following sales. 284) \_\_\_\_\_
- |           |        |
|-----------|--------|
| September | \$3365 |
| October   | \$2609 |
| November  | \$2163 |
| December  | \$2388 |
- What were the total sales over this period?
- A) \$10,635 B) \$10,625 C) \$10,535 D) \$10,525
- 285) During the last four months of a recent year, Annie's Natural Food Store reported the following sales. 285) \_\_\_\_\_
- |           |        |
|-----------|--------|
| September | \$2375 |
| October   | \$2430 |
| November  | \$3309 |
| December  | \$4038 |
- How much more were the sales in December than the sales in November?
- A) \$729 B) \$7247 C) \$7347 D) \$629

- 286) Pete is driving across country from Boston to Seattle. He keeps a record of the distance that he drives each day. 286) \_\_\_\_\_
- |           |           |
|-----------|-----------|
| Monday    | 467 miles |
| Tuesday   | 211 miles |
| Wednesday | 317 miles |
| Thursday  | 210 miles |
| Friday    | 316 miles |
- How much further did he drive on Monday than on Friday?
- A) 783 miles      B) 467 miles      C) 257 miles      D) 151 miles
- 287) Pete is driving across country from Boston to Seattle. He keeps a record of the distance that he drives each day. 287) \_\_\_\_\_
- |           |           |
|-----------|-----------|
| Monday    | 426 miles |
| Tuesday   | 339 miles |
| Wednesday | 287 miles |
| Thursday  | 294 miles |
| Friday    | 270 miles |
- What was his total mileage for the first three days of the week?
- A) 1052 miles      B) 1152 miles      C) 1042 miles      D) 1616 miles
- 288) The height of the tallest building in the town of Chorlton is 1182 feet. It is 111 feet taller than the second tallest building. What is the height of the second tallest building in Chorlton? 288) \_\_\_\_\_
- A) 1293 feet      B) 1071 feet      C) 1070 feet      D) 1292 feet
- 289) The balance in your checking account is \$897. You write checks for \$34, \$46, and \$113. You then deposit \$112 from your paycheck. What is your new balance? 289) \_\_\_\_\_
- A) \$816      B) \$1202      C) \$806      D) \$592
- 290) An employee was paid \$79,869 during the first half of last year. During the second half she was paid \$93,002. How much more was her income during the second half? 290) \_\_\_\_\_
- A) \$172,871      B) \$172,770      C) \$13,133      D) \$13,032
- 291) The list price of a car is \$15,778. The manufacturer offers a rebate of \$610. What is the final price of the car? 291) \_\_\_\_\_
- A) \$16,388      B) \$15,068      C) \$15,168      D) \$16,288
- 292) The dimensions of a rectangular yard are 32 feet by 117 feet. What is its perimeter? 292) \_\_\_\_\_
- A) 149 feet      B) 181 feet      C) 3744 feet      D) 298 feet
- 293) Mark's typing speed is 74 words per minute. How many words can he type in 34 minutes? 293) \_\_\_\_\_
- A) 108 words      B) 2516 words      C) 2526 words      D) 2416 words
- 294) Mr. and Mrs. Gutierrez borrow \$8100 to buy a new car. The loan is to be paid off in 30 monthly payments. How much is each payment? 294) \_\_\_\_\_
- A) \$8070      B) \$27      C) \$270      D) \$8130
- 295) 235 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? 295) \_\_\_\_\_
- A) 28 boxes; 4 chocolates left over      B) 28 boxes; 3 chocolates left over
- C) 29 boxes; no chocolates left over      D) 29 boxes; 3 chocolates left over

- 296) Each box of matches contains 150 matches. Boxes of matches are shipped in cartons. Each carton contains 15 boxes of matches. How many matches are in each carton? 296) \_\_\_\_\_  
 A) 10 matches per carton B) 165 matches per carton  
 C) 2250 matches per carton D) 225 matches per carton
- 297) David's company has to ship 4400 boxes of sprinklers. If a truck can hold 550 boxes, how many truckloads does he need to ship all the boxes? 297) \_\_\_\_\_  
 A) 9 truckloads B) 8 truckloads C) 7 truckloads D) 6 truckloads
- 298) A map has a scale of 3 miles to the inch. How far apart in reality are two cities that are 24 inches apart on the map? How far apart on the map are two cities that, in reality, are 24 miles apart? 298) \_\_\_\_\_  
 A) 8 miles; 72 inches B) 72 miles; 72 inches  
 C) 72 miles; 8 inches D) 8 miles; 8 inches
- 299) A spreadsheet contains 450 entries in a rectangular array which has 25 rows. How many entries are in each row? 299) \_\_\_\_\_  
 A) 18 entries B) 425 entries C) 28 entries D) 11,250 entries
- 300) Danny buys 5 books at \$46 each and pays for them with 10-dollar bills. How many \$10 bills did it take? 300) \_\_\_\_\_  
 A) 6 10-dollar bills B) 23 10-dollar bills  
 C) 220 10-dollar bills D) 230 10-dollar bills
- 301) A travel agent arranged a payment plan for a client. It required a down payment of \$300 and 6 monthly payments of \$432. What was the total cost of the plan? 301) \_\_\_\_\_  
 A) \$2692 B) \$2892 C) \$2592 D) \$2792
- 302) A community garden contains 20 rectangular plots each measuring 5 yd by 10 yd. What is the total area available for gardening? 302) \_\_\_\_\_  
 A) 50 sq yd B) 1000 sq yd C) 600 sq yd D) 1020 sq yd

Write exponential notation.

- 303)  $7 \cdot 7$  303) \_\_\_\_\_  
 A)  $2 \cdot 7$  B)  $2^7$  C)  $7^2$  D)  $7^3$
- 304)  $4 \cdot 4 \cdot 4$  304) \_\_\_\_\_  
 A)  $3^4$  B)  $3 \cdot 4$  C)  $4^3$  D)  $4^1$
- 305)  $9 \cdot 9 \cdot 9 \cdot 9$  305) \_\_\_\_\_  
 A)  $4^9$  B)  $9^2$  C) 36 D)  $9^4$
- 306)  $4 \cdot 4 \cdot 4 \cdot 4 \cdot 4$  306) \_\_\_\_\_  
 A)  $5^4$  B)  $4^5$  C)  $5 \cdot 4$  D)  $4^0$
- 307)  $11 \cdot 11 \cdot 11 \cdot 11$  307) \_\_\_\_\_  
 A)  $11^1$  B)  $4^{15}$  C)  $11^4$  D)  $4 \cdot 11$

308)  $15 \cdot 15 \cdot 15 \cdot 15 \cdot 15$

A)  $5 \cdot 5^{15}$

B)  $15^5$

C)  $5^{15}$

D)  $5 \cdot 15$

308) \_\_\_\_\_

Evaluate.

309)  $5^2$

A) 10

B) 25

C) 36

D) 32

309) \_\_\_\_\_

310)  $5^3$

A) 15

B) 64

C) 243

D) 125

310) \_\_\_\_\_

311)  $8^4$

A) 32

B) 65,536

C) 4096

D) 512

311) \_\_\_\_\_

312)  $8^5$

A) 40

B) 32,768

C) 262,144

D) 390,625

312) \_\_\_\_\_

Simplify.

313)  $240 \div 8 - 3$

A) 235

B) 27

C) 48

D) 229

313) \_\_\_\_\_

314)  $5^2 + 4^2$

A) 36

B) 41

C) 18

D) 81

314) \_\_\_\_\_

315)  $22 + 27 \cdot 20$

A) 980

B) 562

C) 614

D) 69

315) \_\_\_\_\_

316)  $5 \cdot 7 - 8$

A) 280

B) 5

C) 27

D) 43

316) \_\_\_\_\_

317)  $10 \cdot 9 - 5 \cdot 5$

A) 425

B) 200

C) 2250

D) 65

317) \_\_\_\_\_

318)  $87 - 3 \cdot 4 \cdot 5$

A) 375

B) 1680

C) 27

D) 75

318) \_\_\_\_\_

319)  $6^3 \div 9 - 6$

A) 8

B) 213

C) 18

D) 72

319) \_\_\_\_\_

320)  $10^2 - 2 \cdot 7$

A) 686

B) 448

C) 86

D) 560

320) \_\_\_\_\_

321)  $4^2 + 8^2 \div 2^2$

A) 36

B) 32

C) 84

D) 20

321) \_\_\_\_\_

- 322)  $2^{15} \div 2^8 \cdot 2^3 \div 2^4$   
 A) 256 B) 2048 C) 64 D) 1 322) \_\_\_\_\_
- 323)  $(7 + 8)^2$   
 A) 225 B) 57 C) 113 D) 71 323) \_\_\_\_\_
- 324)  $68 - (30 - 6)$   
 A) 24 B) 38 C) 44 D) 32 324) \_\_\_\_\_
- 325)  $72 \div (6 \div 2)$   
 A) 69 B) 12 C) 24 D) 6 325) \_\_\_\_\_
- 326)  $(15 - 14)^2 + (6 + 1)^2$   
 A) 66 B) 50 C) 64 D) 38 326) \_\_\_\_\_
- 327)  $6 \cdot 5 + 9(10 - 7) + 1$   
 A) 66 B) 58 C) 114 D) 253 327) \_\_\_\_\_
- 328)  $220 \div 11 - (3 + 3)$   
 A) 14 B) 17 C) 44 D) 20 328) \_\_\_\_\_
- 329)  $5 \cdot (2 + 2)^2 - 3 \cdot (5 - 3)^2$   
 A) 364 B) 308 C) 68 D) 132 329) \_\_\_\_\_
- 330)  $11^2 + 7 \cdot 10 - (8 + 4 \cdot 5)$   
 A) 1252 B) 131 C) 203 D) 163 330) \_\_\_\_\_
- 331)  $12 \cdot 12 - (15 - 12) \div 3 - (9 - 8)$   
 A) 46 B) 142 C) 126 D) 38 331) \_\_\_\_\_
- 332)  $350 - 3^3 \cdot 24 \div (4 \cdot 3 - 2 \cdot 2)$   
 A) 642 B) 269 C) 292 D) 969 332) \_\_\_\_\_
- Find the average.
- 333) Ages of patients (in years) in a clinic: 19, 8, 21, 19  
 (Round to the nearest whole number)  
 A) 17 years B) 19 years C) 8 years D) 16 years 333) \_\_\_\_\_
- 334) Scores on a math test: 78 40 78 99 40  
 A) 99 B) 67 C) 66 D) 40 334) \_\_\_\_\_
- 335) Monthly checking account fees: \$18, \$11, \$5, \$11, \$5, \$1, \$5  
 A) \$11 B) \$5 C) \$8 D) \$7 335) \_\_\_\_\_
- Simplify.
- 336)  $8 \times 5 + \{18 \div [8 - (3 + 2)]\}$   
 A) 45 B) 46 C) 47 D) 48 336) \_\_\_\_\_

- 337)  $81 \div 3 + \{4 \times [18 - (7 \times 2)]\}$  337) \_\_\_\_\_  
 A) 46 B) 38 C) 33 D) 43
- 338)  $[28 - (4 + 6) \div 2] - [1 + 6 \div 3]$  338) \_\_\_\_\_  
 A) 27 B) 17 C) 15 D) 20
- 339)  $(57 - 10) \times [(80 + 20 \div 5) - (8 \cdot 8 - 5 \cdot 5)]$  339) \_\_\_\_\_  
 A) 2215 B) 2079 C) 2115 D) 2172
- 340)  $5 \times (300 - 65 \div 5) - [3 \cdot 23 - (8 - 2 \cdot 3)]$  340) \_\_\_\_\_  
 A) 1368 B) 1318 C) 132 D) 3144
- 341)  $\{[57 - 2 \cdot 2] - [81 \div (1 + 2)]\} \cdot 8$  341) \_\_\_\_\_  
 A) 296 B) 256 C) 192 D) 208
- 342)  $18(20 - 5 \cdot 3)^2 \div (2 \cdot 9)$  342) \_\_\_\_\_  
 A) 45 B) 2025 C) 5 D) 25

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

Provide an appropriate response.

- 343) You go to the bank to cash three checks. The checks are for \$38.09, \$148.30, and \$74.43. You are given \$222.73 by the teller. Estimate to see if the amount given you seems to be correct. Does \$222.73 seem to be correct? Explain your answer. 343) \_\_\_\_\_
- 344) You go to the bank to cash three checks. The checks are for \$40.81, \$134.93, and \$84.30. You are given \$260.04 by the teller. Estimate to see if the amount given you seems to be correct. Does \$260.04 seem to be correct? Explain your answer. 344) \_\_\_\_\_
- 345) Explain in your own words the commutative law of addition. 345) \_\_\_\_\_
- 346) For any division sentence there is a corresponding multiplication sentence. For example, for the division statement  $12 \div 4 = 3$ , the corresponding multiplication sentence is  $3 \times 4 = 12$ . Consider the division problem  $8 \div 0$ . What do you think the answer is to this division problem? Consider the corresponding multiplication sentence. What conclusion do you arrive at? Explain your answer. 346) \_\_\_\_\_
- 347) Is division commutative? Explain your answer. 347) \_\_\_\_\_
- 348) The expression  $8 + (4 \div 2)$  contains parentheses. Are they necessary? Explain. 348) \_\_\_\_\_
- 349) The expression  $(3 + 5) \div 2$  contains parentheses. Are they necessary? Explain. 349) \_\_\_\_\_

## Answer Key

Testname: UNTITLED37

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

## Answer Key

Testname: UNTITLED37

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

## Answer Key

Testname: UNTITLED37

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

## Answer Key

Testname: UNTITLED37

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

## Answer Key

Testname: UNTITLED37

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

## Answer Key

Testname: UNTITLED37

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

## Answer Key

Testname: UNTITLED37

- 301) B
- 302) B
- 303) C
- 304) C
- 305) D
- 306) B
- 307) C
- 308) B
- 309) B
- 310) D
- 311) C
- 312) B
- 313) B
- 314) B
- 315) B
- 316) C
- 317) D
- 318) C
- 319) C
- 320) C
- 321) B
- 322) C
- 323) A
- 324) C
- 325) C
- 326) B
- 327) B
- 328) A
- 329) C
- 330) D
- 331) B
- 332) B
- 333) A
- 334) B
- 335) C
- 336) B
- 337) D
- 338) D
- 339) C
- 340) A
- 341) D
- 342) D
- 343) No; When the value of the checks is rounded to the nearest \$10, the sum is not close to \$222.73.
- 344) Yes; When the value of the checks is rounded to the nearest \$10, the sum is close to \$260.04.
- 345) Numbers can be added in any order and have the same sum.
- 346) There is no number that when multiplied by 0 will equal 8. Division by 0 is undefined for any real number.
- 347) No.  $a \div b$  does not always equal  $b \div a$ .
- 348) No. Without the parentheses the procedure would be the same. Division is done before addition.  
 $8 + (4 \div 2) = 8 + 4 \div 2 = 10$ .

## Answer Key

Testname: UNTITLED37

349) Yes. Without the parentheses 5 would be divided by 2, then that answer would be added to 3.  $(3 + 5) \div 2 = 4$  and  $3 + 5 \div 2 = 5.5$ .