Exam

Name_____

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

Provide an appropriate response.

1) What are the ways to round off a number?                                          1) _____

   Answer:  If the digit to the right of the one you are rounding to is 5 or larger add 1 to the digit
            you are rounding to. If the digit is 4 or smaller, do not change it. Drop all digits to
            the right of the digit you are rounding to. Replace each dropped digit to the left of
            the decimal point, if any, with 0. Another way is truncation. Drop all the digits to the
            right of a given decimal place.
   Explanation:

2) Explain the difference between terminating and repeating decimals.                2) _____

   Answer:  The division of the numerator and denominator of a fraction terminates by giving a
            remainder of 0 as you carry out the division. A repeating decimal has one or more
            digits repeat over and over as you carry out the division.
   Explanation:

3) Explain why you would use zeros to fill in for missing digits to the right of the decimal    3) _____
   point when adding or subtracting decimals.

   Answer:  It helps reduce errors by making it easier to see which column a digit is in.
   Explanation:

4) Why don't you have to line up decimal points in a vertical column when multiplying    4) _____
   decimals?

   Answer:  The number of decimal places in the product is found by adding the number of
            decimal places in each factor.
   Explanation:

5) Explain how you divide a decimal number by a power of ten.                        5) _____

   Answer:  Move the decimal point to the left the number of places equal to the number of zeros
            in the power of ten.
   Explanation:

6) Explain how you multiply a decimal number by a power of ten.                      6) _____

   Answer:  Move the decimal point to the right the number of places equal to the number of
            zeros in the power of ten.
   Explanation:

7) Why must decimal points be lined up in division of decimals?                      7) _____

   Answer:  It keeps digits with like place values in the same column. This is important because
            you subtract in division, and like named digits must be in the same column.
   Explanation:

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

Rewrite the number as indicated.

8) A certain exotic sports car costs three hundred twelve thousand, three hundred ninety-two dollars.  8) _____
   Rewrite the number using digits.

   A) 31,232          B) 3,203,920          C) 312,392,000          D) 312,392

   Answer:  D
   Explanation:    A)
                   B)
                   C)
                   D)

Perform the addition.

9) 27.25 + 9.06 + 0.948                                                              9) _____
   A) 19.138          B) 37.258          C) 35.362          D) 17.242

   Answer:  B
   Explanation:    A)
                   B)
                   C)
                   D)

Perform the multiplication.

       217
10) × 0.277                                                                          10) _____

   A) 60.22          B) 60.209          C) 60.109          D) 60.219

   Answer:  C
   Explanation:    A)
                   B)
                   C)
                   D)

Solve the problem.

11) Jose Ramirez, a salesperson for a chemical company, travelled 1,733 miles on Monday, 219 miles on   11) _____
    Tuesday, and 2,177 miles on Thursday. Find the total number of miles he travelled during these
    three days.

    A) 3,910 mi          B) 4,029 mi          C) 4,129 mi          D) 3,691 mi

    Answer:  C
    Explanation:    A)
                    B)
                    C)
                    D)

12) If you save $22.02 by buying an item from a discount catalog when the list price is $119.79, what is   12) _____
    the discount price?

    A) $96.77          B) $97.77          C) $141.71          D) $141.81

    Answer:  B
    Explanation:    A)
                    B)
                    C)
                    D)

Perform the multiplication.

$$\begin{array}{r} 0.005 \\ 13) \times\ 0.8 \\ \hline \end{array}$$

13) _____

    A) 0.0004            B) 0.00004           C) 0.04           D) 0.004

Answer:  D

Explanation:    A)
                       B)
                       C)
                       D)

Solve the problem.

14) Corn production increased 4,000 pounds over last year on Steve's farm. Last year the farm produced 20,000 pounds. How much corn did Steve's farm produce this year?

14) _____

    A) 16,000 lb            B) 32,000 lb           C) 24,000 lb           D) 17,000 lb

Answer:  C

Explanation:    A)
                       B)
                       C)
                       D)

Perform the multiplication.

$$\begin{array}{r} 0.173 \\ 15) \times\ 5.8 \\ \hline \end{array}$$

15) _____

    A) 5.973            B) 1.0034           C) 1           D) 5

Answer:  B

Explanation:    A)
                       B)
                       C)
                       D)

Multiply.

$$\begin{array}{r} 489 \\ 16) \times 388 \\ \hline \end{array}$$

16) _____

    A) 199,732            B) 188,732           C) 189,832           D) 189,732

Answer:  D

Explanation:    A)
                       B)
                       C)
                       D)

Perform the indicated operation.

17) $110.48 \div 9.7$   (Round to the nearest hundredths when necessary.)

17) _____

    A) 11.39            B) 11.89           C) 1.14           D) 1.19

Answer:  A

Explanation:    A)
                       B)
                       C)
                       D)

Multiply.

```
      505
18) ×  14
```

18) _____

A) 7,080          B) 7,060          C) 7,070          D) 7,170

Answer: C
Explanation:    A)
                B)
                C)
                D)

First use front-end rounding to write an estimate of the answer, and then subtract the decimals to obtain an exact answer.

19)      Estimate          Problem

19) _____

```
                     83.93
   -              -   9.29
   _____          _____
```

A) Estimate: 71, exact: 74.74          B) Estimate: 81, exact: 84.74
C) Estimate: 81, exact: 81.64          D) Estimate: 71, exact: 74.64

Answer: D
Explanation:    A)
                B)
                C)
                D)

Write the decimal in words.

20) 6.98

20) _____

A) six and ninety-eight tenths          B) six and ninety-eight millionths
C) six and ninety-eight hundredths      D) six and ninety-eight thousandths

Answer: C
Explanation:    A)
                B)
                C)
                D)

Perform the addition.

21) 12 + 12.596

21) _____

A) 0.596          B) 24.696          C) 24.596          D) -0.596

Answer: C
Explanation:    A)
                B)
                C)
                D)

Solve the problem.

22) A grocer sold 98 bags of potatoes for $1.44 each. What was the total amount of the sale?    22) _____
   A) $141.22          B) $142.22          C) $141.13          D) $141.12

   Answer: D
   Explanation:    A)
                   B)
                   C)
                   D)

Divide.

23) 3)‾619‾    23) _____
   A) 207          B) 206 R1          C) 206          D) 206 R2

   Answer: B
   Explanation:    A)
                   B)
                   C)
                   D)

Write the unit cost, rounded to the nearest cent.

24) If 14 notebooks cost $40.51, then one notebook costs $2.8936.    24) _____
   A) $2.79          B) $2.99          C) $40.51          D) $2.89

   Answer: D
   Explanation:    A)
                   B)
                   C)
                   D)

Solve the problem.

25) Brandy's Gift House pays employees for each gift they gift wrap. Assume they are paid as follows:    25) _____

       gifts 1-10          $4.00 each
       gifts 11-15         $5.00 each
       gifts 16 and up     $6.00 each

   If Lee wraps 14 gifts, what are her gross earnings?
   A) $60.00          B) $70.00          C) $64.00          D) $56.00

   Answer: A
   Explanation:    A)
                   B)
                   C)
                   D)

Estimate by using front-end rounding.

74
26) × 69                                                                                          26) _____

    A) 5,106             B) 140             C) 4,900            D) 5,110

Answer:  C

Explanation:    A)
                     B)
                     C)
                     D)

Solve the problem.

27) The following chart shows Tech Support Inc. monthly sales by region for each of the first six          27) _____
months of the year.

| Region | Jan | Feb | Mar | Apr | May | Jun | Totals |
|---|---|---|---|---|---|---|---|
| East | $31,741 | $42,642 | $30,195 | $49,470 | $33,752 | $43,960 | |
| Midwest | $55,007 | $35,788 | $58,572 | $56,397 | $59,525 | $50,521 | |
| West | $63,249 | $61,096 | $66,945 | $83,136 | $71,911 | $43,893 | |
| Totals | | | | | | | |

A)

| Jan | Feb | Mar | Apr | May | Jun | Totals |
|---|---|---|---|---|---|---|
| | | | | | | $230,760 |
| | | | | | | $314,810 |
| | | | | | | $389,230 |
| $149,997 | $139,526 | $155,712 | $189,003 | $165,188 | $138,374 | $934,800 |

B)

| Jan | Feb | Mar | Apr | May | Jun | Totals |
|---|---|---|---|---|---|---|
| | | | | | | $231,760 |
| | | | | | | $315,810 |
| | | | | | | $390,230 |
| $149,997 | $139,526 | $155,712 | $189,003 | $165,188 | $138,374 | $937,800 |

C)

| Jan | Feb | Mar | Apr | May | Jun | Totals |
|---|---|---|---|---|---|---|
| | | | | | | $232,760 |
| | | | | | | $316,810 |
| | | | | | | $391,230 |
| $149,997 | $139,526 | $155,712 | $189,003 | $165,188 | $138,374 | $940,800 |

D)

| Jan | Feb | Mar | Apr | May | Jun | Totals |
|---|---|---|---|---|---|---|
| | | | | | | $187,800 |
| | | | | | | $265,289 |
| | | | | | | $346,337 |
| $149,997 | $139,526 | $155,712 | $189,003 | $165,188 | $138,374 | $799,426 |

Answer:  B

Explanation:    A)
                     B)
                     C)
                     D)

Multiply, omitting zeros in the calculation and then replacing them at the right of the product to obtain the final answer.

28)
       4,600
      × 300

        A) 1,381,000              B) 1,380,000             C) 1,379,501             D) 1,379,000

28) _____

Answer: B
Explanation:   A)
                    B)
                    C)
                    D)

Solve the problem.

29) It took three assembly-line workers 4.21 seconds, 5.882 seconds, and 4.5 seconds to assemble a product. How many seconds in all did they work?

        A) 10.092 sec             B) 14.592 sec             C) 8.71 sec             D) 6.172 sec

29) _____

Answer: B
Explanation:   A)
                    B)
                    C)
                    D)

Round the number to the nearest thousandth, nearest hundredth, and nearest tenth. Remember to round from the original number.

30) 0.1167

        A) 0.117, 0.12, 0.1                            B) 0.1167, 0.116, 0.11
        C) 0.116, 0.11, 0.1                            D) 0.117, 0.11, 0.2

30) _____

Answer: A
Explanation:   A)
                    B)
                    C)
                    D)

Round the number as requested.

31) 5,636 to the nearest ten

        A) 5,740             B) 5,630             C) 5,650             D) 5,640

31) _____

Answer: D
Explanation:   A)
                    B)
                    C)
                    D)

Round the amount to the nearest cent.

32) $49.3442

        A) $49.33            B) $49.35            C) $49.3            D) $49.34

32) _____

Answer: D
Explanation:   A)
                    B)
                    C)
                    D)

Write the decimal using numbers.

33) nine and sixteen hundredths
    A) 9.0016               B) 9.16               C) 9.016               D) 916

33) _____

Answer: B
Explanation:    A)
                        B)
                        C)
                        D)

Round the figure to the nearest dollar.

34) $149.99
    A) $150               B) $149               C) $149.90               D) $148.99

34) _____

Answer: A
Explanation:    A)
                        B)
                        C)
                        D)

35) $387.21
    A) $387.31               B) $386               C) $387               D) $388

35) _____

Answer: C
Explanation:    A)
                        B)
                        C)
                        D)

Estimate by using front-end rounding.

36)
    26
    91
    56
    39
 + 47

36) _____

    A) 260               B) 270               C) 300               D) 259

Answer: B
Explanation:    A)
                        B)
                        C)
                        D)

Solve the problem.

37) Evelyn measured two rooms of her apartment and found that she needed 31.7 square meters of wallpaper for one room and 59.1 square meters for the other. How much wallpaper did she need?
    A) 90.9 m$^2$              B) 100.8 m$^2$              C) 181.6 m$^2$              D) 90.8 m$^2$

37) _____

Answer: D
Explanation:    A)
                        B)
                        C)
                        D)

Perform the indicated operation.

38) $67\overline{)153.384}$  (Round to the nearest hundredths when necessary.)

    A) 0.23                  B) 2.79                 C) 0.28                D) 2.29

Answer: D

Explanation:    A)
                           B)
                           C)
                           D)

Round the number as requested.

39) 858 to the nearest thousand

    A) 100,000           B) 1000               C) 100              D) 10,000

Answer: B

Explanation:    A)
                           B)
                           C)
                           D)

Solve the problem.

40) Richard's team wants to plant 1,112 trees in 8 months. How many trees per month do they need to plant?

    A) 278 trees          B) 147 trees          C) 149 trees         D) 139 trees

Answer: D

Explanation:    A)
                           B)
                           C)
                           D)

Express the number in words.

41) 938,060

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

Answer: C

Explanation:    A)
                           B)
                           C)
                           D)

Perform the subtraction.

42) $\begin{array}{r} 696 \\ -\ 344 \\ \hline \end{array}$

    A) 1,040                B) 252                 C) 344              D) 352

Answer: D

Explanation:    A)
                           B)
                           C)
                           D)

Solve the problem.

43) A manager of a local restaurant had a bank balance of $3,592.38 on October 1. During October, the  43) _____
manager deposited $58,913.01 received from sales, $2,164.44 received as credits from suppliers, and
$65.59 as a county tax refund. He paid out $23,442.64 to suppliers, $4,419.77 for rent and utilities,
and $10,943.27 for salaries. What was the manager's final balance at the end of October?

A) $61,143.04            B) $18,744.98            C) $25,929.74            D) $22,337.36

Answer: C

Explanation: A)
                 B)
                 C)
                 D)

Perform the subtraction.

$$\begin{array}{r} 89{,}868 \\ -\ 4{,}242 \\ \hline \end{array}$$

44)                                                      44) _____

A) 89,626            B) 85,622            C) 85,542            D) 85,626

Answer: D

Explanation: A)
                 B)
                 C)
                 D)

Solve the problem.

45) John earns $11.51/hour. If he works 17 hours, how much will he earn?                        45) _____

A) $196.77            B) $195.67            C) $195.77            D) $195.68

Answer: B

Explanation: A)
                 B)
                 C)
                 D)

46) During one year 20 new employees started working at Macintosh Manufacturing Company. At the  46) _____
beginning of the year there are 386 employees in the factory and 46 employees in the office. What is
the total number of employees at the end of the year?

A) 66 employees            B) 452 employees            C) 412 employees            D) 432 employees

Answer: B

Explanation: A)
                 B)
                 C)
                 D)

Estimate by using front-end rounding.

$$\begin{array}{r} 78 \\ 47) \ - \ 64 \\ \hline \end{array}$$

47) _____

    A) 140              B) 10              C) 20              D) 14

Answer: C
Explanation:   A)
                  B)
                  C)
                  D)

Perform the subtraction.

$$\begin{array}{r} 7,968 \\ 48) \ - \ 3,425 \\ \hline \end{array}$$

48) _____

    A) 4,543            B) 4,493           C) 7,543          D) 4,533

Answer: A
Explanation:   A)
                  B)
                  C)
                  D)

Perform the addition.

49)

$$\begin{array}{r} 176,353 \\ 472,853 \\ + \ 46,610 \\ \hline \end{array}$$

49) _____

    A) 695,816          B) 519,453         C) 695,716        D) 249,890

Answer: A
Explanation:   A)
                  B)
                  C)
                  D)

Solve the problem.

50) A baby weighed 8 pounds at birth and gained 2 pounds a month. How much did the baby gain in 3 months?

50) _____

    A) 6 lb              B) 30 lb           C) 14 lb          D) 13 lb

Answer: A
Explanation:   A)
                  B)
                  C)
                  D)

Write the decimal using numbers.

51) eight hundred eighteen ten-thousandths

    A) 800.018        B) 0.0818        C) 800.0018        D) 0.818

51) _____

Answer: B

Explanation:  A)
                  B)
                  C)
                  D)

Solve the problem.

52) The following chart shows HealthTech's monthly sales by region for each of the first six months of the year.

52) _____

| Region | Jan | Feb | Mar | Apr | May | Jun | Totals |
|---|---|---|---|---|---|---|---|
| East | $73,696 | $72,058 | $67,313 | $74,125 | $85,583 | $77,859 | |
| Midwest | $45,865 | $43,105 | $48,135 | $51,881 | $45,066 | $43,205 | |
| West | $46,020 | $52,498 | $62,237 | $79,629 | $53,621 | $82,714 | |
| Totals | | | | | | | |

A)

| Jan | Feb | Mar | Apr | May | Jun | Totals |
|---|---|---|---|---|---|---|
| | | | | | | $451,634 |
| | | | | | | $278,257 |
| | | | | | | $377,719 |
| $165,581 | $167,661 | $177,685 | $205,635 | $184,270 | $203,778 | $1,107,610 |

B)

| Jan | Feb | Mar | Apr | May | Jun | Totals |
|---|---|---|---|---|---|---|
| | | | | | | $372,775 |
| | | | | | | $234,052 |
| | | | | | | $294,005 |
| $165,581 | $167,661 | $177,685 | $205,635 | $184,270 | $203,778 | $900,832 |

C)

| Jan | Feb | Mar | Apr | May | Jun | Totals |
|---|---|---|---|---|---|---|
| | | | | | | $450,634 |
| | | | | | | $277,257 |
| | | | | | | $376,719 |
| $165,581 | $167,661 | $177,685 | $205,635 | $184,270 | $203,778 | $1,104,610 |

D)

| Jan | Feb | Mar | Apr | May | Jun | Totals |
|---|---|---|---|---|---|---|
| | | | | | | $449,634 |
| | | | | | | $276,257 |
| | | | | | | $375,719 |
| $165,581 | $167,661 | $177,685 | $205,635 | $184,270 | $203,778 | $1,101,610 |

Answer: C

Explanation:  A)
                  B)
                  C)
                  D)

53) A travel agent arranged a payment plan for a client. It required a down payment of $250 and 12     53) _____
monthly payments of $363. What was the total cost of the plan?
   A) $4,356                B) $4,456                C) $4,506                D) $4,606

Answer: D
Explanation:    A)
                B)
                C)
                D)

Perform the indicated operation.

54)  $9.44 \overline{)1{,}164}$   (Round to the nearest thousandths when necessary.)     54) _____
   A) 123.805               B) 123.305               C) 12.331               D) 12.381

Answer: B
Explanation:    A)
                B)
                C)
                D)

Perform the subtraction.

      888,874
55)  $-$ 709,150                                                                            55) _____

   A) 179,724               B) 169,724               C) 888,974               D) 1,598,024

Answer: A
Explanation:    A)
                B)
                C)
                D)

Express the number in words.
56) 26,206                                                                                  56) _____
   A) twenty-six thousand, two hundred sixty          B) twenty-six thousand, two hundred six
   C) twenty thousand, two hundred six                D) twenty thousand, six hundred twenty six

Answer: B
Explanation:    A)
                B)
                C)
                D)

Solve the problem.

57) A manager of a local restaurant had a bank balance of $3,881.90 on October 1. During October, the manager deposited $54,218.97 received from sales, $2,599.85 received as credits from suppliers, and $94.75 as a county tax refund. He paid out $23,181.97 to suppliers, $4,263.53 for rent and utilities, and $10,881.46 for salaries. How much did the manager deposit in October? How much did the manager pay out?  57) _____

A) Deposits: $60,795.47
   Paid out: $34,445.06

B) Deposits: $56,913.57
   Paid out: $34,445.06

C) Deposits: $56,913.57
   Paid out: $38,326.96

D) Deposits: $60,795.47
   Paid out: $38,326.96

Answer: C
Explanation: A)
         B)
         C)
         D)

58) The following chart shows a book publisher's monthly sales by book category for the first quarter of the year. Complete the totals by adding horizontally and vertically.  58) _____

|         | Jan   | Feb   | Mar   | Totals |
|---------|-------|-------|-------|--------|
| Math    | 8,685 | 6,657 | 3,896 |        |
| Science | 5,539 | 4,057 | 7,024 |        |
| English | 8,385 | 3,185 | 7,940 |        |
| History | 4,085 | 8,144 | 8,485 |        |
| Totals  |       |       |       |        |

A)

| Jan    | Feb    | Mar    | Totals |
|--------|--------|--------|--------|
|        |        |        | 19,238 |
|        |        |        | 16,520 |
|        |        |        | 19,510 |
|        |        |        | 20,814 |
| 26,694 | 21,943 | 27,445 | 76,082 |

B)

| Jan    | Feb    | Mar    | Totals |
|--------|--------|--------|--------|
|        |        |        | 19,238 |
|        |        |        | 16,620 |
|        |        |        | 19,510 |
|        |        |        | 20,714 |
| 26,694 | 22,043 | 27,345 | 76,082 |

C)

| Jan    | Feb    | Mar    | Totals |
|--------|--------|--------|--------|
|        |        |        | 19,238 |
|        |        |        | 16,520 |
|        |        |        | 19,510 |
|        |        |        | 20,814 |
| 26,794 | 21,943 | 27,345 | 76,082 |

D)

| Jan    | Feb    | Mar    | Totals |
|--------|--------|--------|--------|
|        |        |        | 19,238 |
|        |        |        | 16,520 |
|        |        |        | 19,510 |
|        |        |        | 20,714 |
| 26,694 | 21,943 | 27,345 | 75,982 |

Answer: B
Explanation: A)
         B)
         C)
         D)

59) If the list price is $29.24 and if $6.78 is saved by buying from a discount catalog, what is the discount price for the item?  59) _____

A) $22.46        B) $36.02        C) $22.56        D) $35.02

Answer: A
Explanation: A)
         B)
         C)
         D)

Round the number to the nearest thousandth, nearest hundredth, and nearest tenth. Remember to round from the original number.

60) 1.883                                                                                                       60) _____

    A) 1.883, 1.90, 2       B) 1.883, 1.88, 1.9       C) 1.884, 1.88, 1.8       D) 1.88, 1.8, 1

Answer: B
Explanation:   A)
                B)
                C)
                D)

Estimate by using front-end rounding.

     682
61) - 444                                                                                                  61) _____

    A) 240              B) 200              C) 300              D) 238

Answer: C
Explanation:   A)
                B)
                C)
                D)

Multiply, omitting zeros in the calculation and then replacing them at the right of the product to obtain the final answer.

62)                                                                                                             62) _____
    71,000
 ×  7,000

    A) 497,000,000      B) 496,999,501      C) 496,999,000      D) 497,001,000

Answer: A
Explanation:   A)
                B)
                C)
                D)

Multiply.

    17,972
63) ×  193                                                                                        63) _____

    A) 3,467,596       B) 3,478,596       C) 3,468,596       D) 3,468,696

Answer: C
Explanation:   A)
                B)
                C)
                D)

5,367

64) × 7,193                                                                                              64) _____

    A) 38,614,831        B) 38,604,931        C) 38,603,831        D) 38,604,831

Answer: D
Explanation:    A)
                        B)
                        C)
                        D)

Solve the problem.

65) Gina is buying a used car that has an advertised price of $3,500. She is buying the car on credit and        65) _____
must make a down payment of $500 and 36 monthly payments of $101. What is the total cost of the
car?

    A) $3,636        B) $3,736        C) $4,136        D) $4,126

Answer: C
Explanation:    A)
                        B)
                        C)
                        D)

Perform the subtraction.

599

66) − 31                                                                                                 66) _____

    A) 568        B) 630        C) 566        D) 468

Answer: A
Explanation:    A)
                        B)
                        C)
                        D)

68,956

67) − 54,145                                                                                             67) _____

    A) 18,811        B) 14,721        C) 14,811        D) 14,801

Answer: C
Explanation:    A)
                        B)
                        C)
                        D)

Multiply.

        4,002

68) × 500                                                        68) _____

     A) 2,002,000            B) 2,011,000           C) 2,000,000          D) 2,001,000

Answer: D

Explanation:    A)
                       B)
                       C)
                       D)

Write the decimal in words.

69) .53                                                           69) _____

     A) fifty-three tenths                       B) fifty-three thousandths

     C) fifty-three millionths                    D) fifty-three hundredths

Answer: D

Explanation:    A)
                       B)
                       C)
                       D)

Perform the indicated operation.

70) 6.743 ÷ 7.9  (Round to the nearest hundredths when necessary.)              70) _____

     A) 1.35                  B) 0.14               C) 0.09              D) 0.85

Answer: D

Explanation:    A)
                       B)
                       C)
                       D)

Solve the problem.

71) Jack borrowed $1,110 from his brother. Jack's brother wants 9 monthly payments of $140 to repay    71) _____
the loan. How much extra is Jack's brother charging for the loan?

     A) $1,260               B) $150                C) $1,360            D) $10

Answer: B

Explanation:    A)
                       B)
                       C)
                       D)

First use front-end rounding to write an estimate of the answer, and then multiply fully to obtain an exact answer.

72)     Estimate         Problem                                                                                  72) _____

```
                              2
    × _____           ×  2
```

  A) Estimate: 1, exact: 3                          B) Estimate: 0.1, exact: 3.9
  C) Estimate: 4, exact: 4                          D) Estimate: 0.4, exact: 0.4

  Answer:  C
  Explanation:     A)
                   B)
                   C)
                   D)

Divide.

73) 8 )‾6521‾                                                                                                     73) _____
      A) 816                    B) 815  R7              C) 815  R1              D) 815

  Answer:  C
  Explanation:     A)
                   B)
                   C)
                   D)

Perform the multiplication.

```
       46.0
74) ×  6.8
```
                                                                                                                 74) _____

      A) 52.8                   B) 312.8               C) 313.9               D) 312.91

  Answer:  B
  Explanation:     A)
                   B)
                   C)
                   D)

Estimate by using front-end rounding.

75)                                                                                                              75) _____
```
      547
      290
      529
      705
    + 134
```

      A) 2,200                  B) 2,100               C) 2,205               D) 2,210

  Answer:  B
  Explanation:     A)
                   B)
                   C)
                   D)

18

Multiply.

         4,080
76) × 2,600                                                                                              76) _____

       A) 10,607,000          B) 10,608,000          C) 10,609,000          D) 10,618,000

    Answer: B
    Explanation:    A)
                    B)
                    C)
                    D)

Round the number as requested.
    77) 43,245 to the nearest ten                                                                        77) _____
       A) 43,350              B) 43,250              C) 43,260              D) 43,240

    Answer: B
    Explanation:    A)
                    B)
                    C)
                    D)

Find the gross pay at the given rate. Round to the nearest cent.
    78) 5.1 hours at $8.27 per hour and 11.0 hours at $14.83 per hour                                    78) _____
       A) $215.31             B) $195.31             C) $215.41             D) $205.31

    Answer: D
    Explanation:    A)
                    B)
                    C)
                    D)

First use front-end rounding to write an estimate of the answer, and then multiply fully to obtain an exact answer.
    79)      Estimate          Problem                                                                    79) _____

                                68.51
            × _____      ×    26.29
              _____         _____

       A) Estimate: 210, exact: 18,011.279          B) Estimate: 2,100, exact: 1,801.1279
       C) Estimate: 210, exact: 180.11279           D) Estimate: 2,110, exact: 1,800.1279

    Answer: B
    Explanation:    A)
                    B)
                    C)
                    D)

Perform the addition.
80)

     528
      50
  5,002
       6
+  401
_____

    A) 4,931               B) 5,887               C) 5,987               D) 5,977

Answer: C
Explanation:    A)
                     B)
                     C)
                     D)

Solve the problem.
81) A bakery sold 43 pies for $3.04 each. What was the total amount of the sale?

    A) $130.73           B) $130.72           C) $130.82           D) $131.82

Answer: B
Explanation:    A)
                     B)
                     C)
                     D)

Perform the subtraction.

    7,896
82)  - 455
    _____

    A) 7,441            B) 7,431           C) 441              D) 7,331

Answer: A
Explanation:    A)
                     B)
                     C)
                     D)

Solve the problem.
83) Alicia sold $6,699 of paintings at the art fair. If she sold 7 paintings total, and they all sold for the same amount, what was the price of one painting?

    A) $994              B) $951            C) $857            D) $957

Answer: D
Explanation:    A)
                     B)
                     C)
                     D)

Write the decimal using numbers.

84) two tenths                                                                                                      84) _____

   A) 0.02                    B) 20                    C) 0.2                    D) 0.002

   Answer: C
   Explanation:    A)
                   B)
                   C)
                   D)

Perform the addition.

85) 4.7 + 8.29                                                                                                      85) _____

   A) -3.59                   B) 12.99                 C) 13.09                  D) 3.59

   Answer: B
   Explanation:    A)
                   B)
                   C)
                   D)

First use front-end rounding to write an estimate of the answer, and then add the decimals to obtain an exact answer.

86)      Estimate           Problem                                                                                 86) _____

                              14.57
                              41.9
    +   _____         +   9.2
                            _____

   A) Estimate: 59, exact: 65.67               B) Estimate: 59, exact: 64.67
   C) Estimate: 59, exact: 55.67               D) Estimate: 60, exact: 66.67

   Answer: A
   Explanation:    A)
                   B)
                   C)
                   D)

Perform the multiplication.

        0.02
87)   × 0.02                                                                                                        87) _____

   A) 0.0004                  B) 0.04                  C) 0.000004               D) 0.004

   Answer: A
   Explanation:    A)
                   B)
                   C)
                   D)

21

Divide.

88) $43\overline{)9,216}$

    A) 217 R5             B) 214 R14             C) 217 R35             D) 214

88) _____

Answer: B
Explanation:   A)
                  B)
                  C)
                  D)

Solve the problem.

89) Sales at Andrea's Formal Wear Shop were $812 this week. This is $145 less than the sales last week. What were last week's sales?

    A) $957             B) $946             C) $667             D) $968

89) _____

Answer: A
Explanation:   A)
                  B)
                  C)
                  D)

Write the unit cost, rounded to the nearest cent.

90) If 11 compact discs cost $167.85, then one compact disc costs $15.2591.

    A) $167.85          B) $15.16          C) $15.36          D) $15.26

90) _____

Answer: D
Explanation:   A)
                  B)
                  C)
                  D)

Round the figure to the nearest dollar.

91) $60,434.08

    A) $60,434.1        B) $60,435         C) $60,434        D) $60,000

91) _____

Answer: C
Explanation:   A)
                  B)
                  C)
                  D)

Find the gross pay at the given rate. Round to the nearest cent.

92) 22.7 hours at $6.55 per hour

    A) $148.69         B) $142.14         C) $153.69         D) $155.24

92) _____

Answer: A
Explanation:   A)
                  B)
                  C)
                  D)

Solve the problem.

93) A car rental company charges $25 per day and $0.50 per mile to rent a car. What is the total bill if a    93) _____
    car is rented for 4 days and is driven 133 miles?

    A) $33.50               B) $3,391.50            C) $166.50            D) $102.00

Answer: C
Explanation:    A)
                      B)
                      C)
                      D)

Write the decimal in words.

94) 5.704    94) _____

    A) five and seventy thousand four hundredths
    B) five and seventy tenths and four thousandths
    C) five and seventy-four thousandths
    D) five and seven hundred four thousandths

Answer: D
Explanation:    A)
                      B)
                      C)
                      D)

Perform the indicated operation.

95) $32.39 \div 4.1$    95) _____

    A) 7.9               B) 79               C) 0.79            D) 8.9

Answer: A
Explanation:    A)
                      B)
                      C)
                      D)

Perform the multiplication.

    0.0038
96) ×    5.1    96) _____

    A) 0.1938            B) 0.0001938          C) 0.001938         D) 0.01938

Answer: D
Explanation:    A)
                      B)
                      C)
                      D)

Round the amount to the nearest cent.

97) $9.8293    97) _____

    A) $9.83            B) $9.829           C) $9.82         D) $9.93

Answer: A
Explanation:    A)
                      B)
                      C)
                      D)

Solve the problem.
  98) If the temperature in the city has risen 3° each day, how much has it risen in 4 days?       98) _____
        A) 15°                    B) 7°                    C) 22°                    D) 12°

      Answer: D
      Explanation:    A)
                      B)
                      C)
                      D)

Round the figure to the nearest dollar.
  99) $1,433,037.18                                                                                99) _____
        A) $1,433,038          B) $1,433,037          C) $1,433,037.2          D) $1,433,000

      Answer: B
      Explanation:    A)
                      B)
                      C)
                      D)

Express the number in words.
  100) 3,590                                                                                       100) _____
        A) thirty five hundred nine                    B) three thousand, five hundred nine
        C) thirty five thousand, ninety                D) three thousand, five hundred ninety

      Answer: D
      Explanation:    A)
                      B)
                      C)
                      D)

Perform the multiplication.
        5.7
  101) × 723                                                                                       101) _____

        A) 4,122.2            B) 4,121.21            C) 4,121.1            D) 4,121.2

      Answer: C
      Explanation:    A)
                      B)
                      C)
                      D)

Write the decimal using numbers.
  102) sixteen and five tenths                                                                     102) _____
        A) 16.005            B) 16.05            C) 0.165            D) 16.5

      Answer: D
      Explanation:    A)
                      B)
                      C)
                      D)

Solve the problem.

103) Jennifer has $524.83 in her savings account. If she withdraws $82.01, what is the new balance in her account?

    103) _____

    A) $606.84        B) $442.83        C) $442.82        D) $606.83

Answer: C
Explanation:    A)
                     B)
                     C)
                     D)

104) On a normal week day the vending machines at Green Lake College dispense 1,230 sodas, 450 candy bars, 540 snack items, and 210 cups of coffee. If it takes Jim Lewis six hours to restock the vending machines, how many items does he restock each hour?

    104) _____

    A) 330 items        B) 405 items        C) 315 items        D) 810 items

Answer: B
Explanation:    A)
                     B)
                     C)
                     D)

Round the figure to the nearest dollar.

105) $462.07

    105) _____

    A) $463        B) $462.10        C) $461        D) $462

Answer: D
Explanation:    A)
                     B)
                     C)
                     D)

Express the number in words.

106) 64,000,972

    106) _____

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

Answer: C
Explanation:    A)
                     B)
                     C)
                     D)

Solve the problem.

107) Each year, 104 people move from Babbittown. How many people have moved from the town in 8 years?

    107) _____

    A) 936 people        B) 842 people        C) 832 people        D) 732 people

Answer: C
Explanation:    A)
                     B)
                     C)
                     D)

108) During one year 22 new employees started working at McIntosh Manufacturing Company. At the beginning of the year there are 250 employees in the factory and 42 employees in the office. What is the total number of employees at the end of the year?

    A) 314 employees       B) 64 employees       C) 270 employees       D) 292 employees

108) _____

Answer:  A

Explanation:   A)
                  B)
                  C)
                  D)

Divide.

109)  $6\overline{)3506}$

    A) 584  R1              B) 583  R8            C) 584  R2          D) 584

109) _____

Answer:  C

Explanation:   A)
                  B)
                  C)
                  D)

Perform the addition.

110)
      981
   3,171
+ 1,792

    A) 5,844              B) 398               C) 5,944          D) 4,953

110) _____

Answer:  C

Explanation:   A)
                  B)
                  C)
                  D)

Perform the indicated operation.

111) $0.216 \div 72$

    A) 0.0029            B) 0.002             C) 0.004          D) 0.003

111) _____

Answer:  D

Explanation:   A)
                  B)
                  C)
                  D)

Divide, dropping zeros from the divisor.

112) $60\overline{)3480}$

    A) 48                 B) 59                C) 49            D) 58

112) _____

Answer:  D

Explanation:   A)
                  B)
                  C)
                  D)

Solve the problem.

113) Jake has a cable that is 58 feet long. He wants to cut it into pieces that are 5.8 feet long. How many 5.8-foot pieces will he get from the cable?

113) _____

    A) 11 pieces             B) 10 pieces             C) 9 pieces             D) 100 pieces

Answer: B

Explanation:    A)
                   B)
                   C)
                   D)

First use front-end rounding to write an estimate of the answer, and then multiply fully to obtain an exact answer.

114)     Estimate       Problem

114) _____

$$\begin{array}{r} 6.317 \\ \times\phantom{xx} \phantom{xxx} \times\quad 8.08 \\ \hline \end{array}$$

    A) Estimate: 480, exact: 510.4136           B) Estimate: 48, exact: 51.04136
    C) Estimate: 4.8, exact: 5.104136            D) Estimate: 480, exact: 5,104.136

Answer: B

Explanation:    A)
                   B)
                   C)
                   D)

Perform the subtraction.

$$\begin{array}{r} 9{,}987 \\ 115)\ -\ 4{,}215 \\ \hline \end{array}$$

115) _____

    A) 5,772             B) 5,762             C) 9,772             D) 5,742

Answer: A

Explanation:    A)
                   B)
                   C)
                   D)

Perform the addition.

116) 5 + 2.12 + 0.674

116) _____

    A) 3.554             B) 7.794             C) 6.446             D) 2.206

Answer: B

Explanation:    A)
                   B)
                   C)
                   D)

Divide.

117) $30\overline{)8,157}$                                                                                 117) _____

    A) 271                  B) 27                  C) 271 R27                D) 271 R9

Answer: C

Explanation:    A)
                          B)
                          C)
                          D)

Solve the problem.

118) The original price on a shirt is $10.26. If you receive a $2.72 discount, how much does the shirt cost?    118) _____

    A) $12.26              B) $7.54              C) $8.26              D) $12.98

Answer: B

Explanation:    A)
                          B)
                          C)
                          D)

Round the number as requested.

119) 64,008 to the nearest thousand                                                    119) _____

    A) 64,100              B) 65,000              C) 64,010              D) 64,000

Answer: D

Explanation:    A)
                          B)
                          C)
                          D)

Write the unit cost, rounded to the nearest cent.

120) If 361 candy bars cost $384.21, then one candy bar costs $1.0643.                      120) _____

    A) $1.06               B) $384.21            C) $0.96              D) $1.16

Answer: A

Explanation:    A)
                          B)
                          C)
                          D)

Write the decimal using numbers.

121) two and twelve thousandths                                                        121) _____

    A) 2.12                B) 2.0012             C) 2.012              D) 212

Answer: C

Explanation:    A)
                          B)
                          C)
                          D)

Find the gross pay at the given rate. Round to the nearest cent.

122) 31.7 hours at $11.25 per hour 122) _____

    A) $345.38               B) $361.63               C) $356.63               D) $367.88

Answer: C

Explanation:    A)

                        B)

                        C)

                        D)

Solve the problem.

123) Scrambled Electronics will finance a $235 TV set for $50 down and $38.32 a month for 6 months. 123) _____
How much money can you save by paying cash for the TV set?

    A) $279.92               B) $5.08               C) $55.08               D) $44.92

Answer: D

Explanation:    A)

                        B)

                        C)

                        D)

First use front-end rounding to write an estimate of the answer, and then multiply fully to obtain an exact answer.

124)     Estimate         Problem 124) _____

$$
\begin{array}{r}
29.7 \\
\times\ \ 3.7 \\
\hline
\end{array}
$$

    A) Estimate: 12, exact: 11.089               B) Estimate: 120, exact: 110.89
    C) Estimate: 120, exact: 109.89              D) Estimate: 12, exact: 10.989

Answer: C

Explanation:    A)

                        B)

                        C)

                        D)

Multiply.

$$
\begin{array}{r}
475 \\
\times\ 200 \\
\hline
\end{array}
$$

125) 125) _____

    A) 85,000               B) 95,000               C) 94,000               D) 93,000

Answer: B

Explanation:    A)

                        B)

                        C)

                        D)

Round the number as requested.

126) 9,164 to the nearest thousand                                                                    126) _____

      A) 10,000                B) 8,900                C) 9,100                D) 9,000

Answer: D

Explanation:    A)

                       B)

                       C)

                       D)

Solve the problem.

127) The stock market gained 18 points on Monday. It had closed the previous Friday at 2,616 points.    127) _____
How many points did the market close at on Monday?

      A) 2,636 points          B) 2,634 points          C) 2,598 points          D) 2,597 points

Answer: B

Explanation:    A)

                       B)

                       C)

                       D)

Find the gross pay at the given rate. Round to the nearest cent.

128) 22.8 hours at $7.25 per hour                                        128) _____

      A) $170.30              B) $172.55             C) $165.30             D) $158.05

Answer: C

Explanation:    A)

                       B)

                       C)

                       D)

Perform the addition.

129)                                                               129) _____

       50
       83
   + 72
   ‾‾‾‾

      A) 195                B) 267                C) 209                D) 205

Answer: D

Explanation:    A)

                       B)

                       C)

                       D)

Solve the problem.

130) How much money is saved at a $66.67 discount price rather than a $89.16 list price?    130) _____

      A) $23.49              B) $23.59             C) $22.49             D) $22.59

Answer: C

Explanation:    A)

                       B)

                       C)

                       D)

Express the number in words.

131) 4,700,345          131) \_\_\_\_\_

    A) four million, seven thousand, three hundred forty-five
    B) four million, seven hundred thousand, three thousand, forty-five
    C) four million, seventy thousand, three hundred forty-five
    D) four million, seven hundred thousand, three hundred forty-five

Answer: D
Explanation:   A)
               B)
               C)
               D)

Solve the problem.

132) Jose Ramirez, a salesperson for a chemical company, travelled 1,539 miles on Monday, 407 miles on Tuesday, and 1,955 miles on Thursday. Find the total number of miles he travelled during these three days.      132) \_\_\_\_\_

    A) 3,801 mi         B) 3,494 mi         C) 3,087 mi         D) 3,901 mi

Answer: D
Explanation:   A)
               B)
               C)
               D)

Perform the addition.

133)          133) \_\_\_\_\_

    438
    686
  + 563
    ‾‾‾‾‾

    A) 1,677         B) 1,674         C) 1,667         D) 1,687

Answer: D
Explanation:   A)
               B)
               C)
               D)

Solve the problem.

134) If the list price is $155.67 and the discount price is $99.74, how much is saved by buying at discount?      134) \_\_\_\_\_

    A) $56.93         B) $65.93         C) $66.93         D) $55.93

Answer: D
Explanation:   A)
               B)
               C)
               D)

Write the decimal using numbers.

135) nine million, one hundred and nineteen ten-thousandths

135) \_\_\_\_\_

A) 9,000,100.0019    B) 9100.0019    C) 9,000,100.019    D) 0.00900119

Answer: A

Explanation:    A)
                B)
                C)
                D)

Solve the problem.

136) Lesley purchased office supplies for her business. She spent $5 on paper, $7 on pens, $8 on folders, and $92 on computer disks. What was the total amount that she spent?

136) \_\_\_\_\_

A) $112    B) $117    C) $105    D) $108

Answer: A

Explanation:    A)
                B)
                C)
                D)

Round the figure to the nearest dollar.

137) $216.06

137) \_\_\_\_\_

A) $217    B) $216.10    C) $216    D) $216.06

Answer: C

Explanation:    A)
                B)
                C)
                D)

Perform the multiplication.

    0.109
138) ×  0.5

138) \_\_\_\_\_

A) 0.000545    B) 0.0545    C) 5.45    D) 0.545

Answer: B

Explanation:    A)
                B)
                C)
                D)

Multiply, omitting zeros in the calculation and then replacing them at the right of the product to obtain the final answer.

139)

139) \_\_\_\_\_

    700
×  600

A) 420,000    B) 419,000    C) 430,000    D) 421,000

Answer: A

Explanation:    A)
                B)
                C)
                D)

First use front-end rounding to write an estimate of the answer, and then multiply fully to obtain an exact answer.

140)    Estimate        Problem                                                          140) _____

                                    7.1
        × _____          × _ 39

        A) Estimate: 279, exact: 275.9          B) Estimate: 281, exact: 277.9
        C) Estimate: 28, exact: 27.69           D) Estimate: 280, exact: 276.9

    Answer: D
    Explanation:    A)
                    B)
                    C)
                    D)

Perform the addition.

141) 5 + 5.11                                                                             141) _____
        A) 0.11             B) 10.11            C) -0.11            D) 10.21

    Answer: B
    Explanation:    A)
                    B)
                    C)
                    D)

Rewrite the number as indicated.

142) A company had net revenues of $8,500,945 in one year. Write this number using words.   142) _____
        A) eight million, five hundred thousand, nine hundred forty-five
        B) eight million, five thousand, nine hundred forty-five
        C) eight million, fifty thousand, nine hundred forty-five
        D) eight million, five hundred thousand, nine thousand, forty-five

    Answer: A
    Explanation:    A)
                    B)
                    C)
                    D)

Multiply.

            465
143) × 900                                                                               143) _____

        A) 419,500          B) 418,500          C) 417,500          D) 428,500

    Answer: B
    Explanation:    A)
                    B)
                    C)
                    D)

Write the unit cost, rounded to the nearest cent.

144) If 43 cheeseburgers cost $60.23, then one cheeseburger costs $1.4007.

    A) $1.30        B) $1.40        C) $1.50        D) $60.23

144) _____

Answer: B

Explanation:   A)
                B)
                C)
                D)

Perform the multiplication.

145) $\begin{array}{r} 0.083 \\ \times\ 0.73 \\ \hline \end{array}$

145) _____

    A) 0.06059        B) 0.0006059        C) 6.059        D) 0.006059

Answer: A

Explanation:   A)
                B)
                C)
                D)

Divide.

146) $8\overline{)278}$

146) _____

    A) 34        B) 34  R6        C) 40        D) 34  R7

Answer: B

Explanation:   A)
                B)
                C)
                D)

Solve the problem.

147) June has a strip of paper 40.2 inches long. She wants to cut it into strips that are 6.7 inches long. How many 6.7-inch strips will she get from the paper?

    A) 6 pieces        B) 7 pieces        C) 5 pieces        D) 60 pieces

147) _____

Answer: A

Explanation:   A)
                B)
                C)
                D)

Multiply.

148) $\begin{array}{r} 207 \\ \times\ 400 \\ \hline \end{array}$

148) _____

    A) 92,800        B) 83,800        C) 82,800        D) 81,800

Answer: C

Explanation:   A)
                B)
                C)
                D)

Perform the indicated operation.

149) 7.65 ÷ 0.09

  A) 74      B) 85      C) 8.5      D) 86

149) _____

 Answer: B
 Explanation: A)
       B)
       C)
       D)

Solve the problem.

150) One cook can make enough food for 350 people a night. How many cooks are needed to feed 1,750 people a night?

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

150) _____

 Answer: C
 Explanation: A)
       B)
       C)
       D)

Perform the indicated operation.

151) $31\overline{)7.37}$   (Round to the nearest hundredths when necessary.)

  A) 0.24      B) 0.07      C) 0.74      D) 0.02

151) _____

 Answer: A
 Explanation: A)
       B)
       C)
       D)

Solve the problem.

152) Brandy's Gift House pays employees for each gift they gift wrap. Assume they are paid as follows:

    gifts 1-10     $14 each
    gifts 11-15     $15 each
    gifts 16 and up   $26 each

If Lee wraps 12 gifts, what are her gross earnings?

  A) $170      B) $180      C) $192      D) $168

152) _____

 Answer: A
 Explanation: A)
       B)
       C)
       D)

153) Ultimate Lighting Company, based in the United States, has 20 employees in Belgium, 407 employees in Hong Kong, 66 employees in Argentina, and 36 employees in Australia. What is the total number of employees working outside of the United States?

  A) 509 employees   B) 529 employees   C) 530 employees   D) 519 employees

153) _____

 Answer: B
 Explanation: A)
       B)
       C)
       D)

First use front-end rounding to write an estimate of the answer, and then add the decimals to obtain an exact answer.

154)      Estimate        Problem                                             154) _____

$$\begin{array}{r} 803.18 \\ 1.03 \\ +\ 1589.36 \\ \hline \end{array}$$

+ _____

A) Estimate: 2801, exact: 1393.57               B) Estimate: 2801, exact: 2393.47

C) Estimate: 2801, exact: 2383.47               D) Estimate: 2801, exact: 2393.57

Answer: D

Explanation:   A)

                 B)

                 C)

                 D)

Solve the problem.

155) David's company has to ship 2,200 boxes of sprinklers. If a truck can hold 550 boxes, how many     155) _____
truckloads does he need to ship all the boxes?

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

Answer: D

Explanation:   A)

                 B)

                 C)

                 D)

Perform the multiplication.

$$\begin{array}{r} 0.509 \\ \times\ 0.07 \\ \hline \end{array}$$

156)                                                   156) _____

A) 0.03563        B) 3.563        C) 0.0003563        D) 0.003563

Answer: A

Explanation:   A)

                 B)

                 C)

                 D)

Write the decimal in words.

157) 6.7                                              157) _____

A) six and seven thousandths             B) six and seven tenths

C) six and seven millionths                D) six and seven hundredths

Answer: B

Explanation:   A)

                 B)

                 C)

                 D)

Multiply.

158) 
$$\begin{array}{r} 5,836 \\ \times\ 211 \end{array}$$
158) _____

    A) 1,230,396        B) 1,231,496        C) 1,241,396        D) 1,231,396

Answer: D
Explanation:    A)
                     B)
                     C)
                     D)

Solve the problem.

159) If you save $41.56 off the list price buying from a discount catalog, and the list price is $113.09, what is the discount price?

159) _____

    A) $70.53        B) $71.53        C) $154.65        D) $151.00

Answer: B
Explanation:    A)
                     B)
                     C)
                     D)

160) A salesperson earned $300 a week plus a bonus of $23 for each service contract sold. What is the weekly pay if 6 service contracts were sold?

160) _____

    A) $138        B) $300        C) $538        D) $438

Answer: D
Explanation:    A)
                     B)
                     C)
                     D)

Round the amount to the nearest cent.

161) $7.49203

161) _____

    A) $7.492        B) $7.50        C) $7.48        D) $7.49

Answer: D
Explanation:    A)
                     B)
                     C)
                     D)

Round the number as requested.

162) 47,026 to the nearest hundred

162) _____

    A) 47,010        B) 47,100        C) 46,900        D) 47,000

Answer: D
Explanation:    A)
                     B)
                     C)
                     D)

Round the figure to the nearest dollar.

163) $5,282.52

    A) $5,282.5            B) $5,282.52           C) $5,283           D) $5,282

163) _____

Answer: C

Explanation:   A)
                     B)
                     C)
                     D)

Perform the indicated operation.

164) 742.32 ÷ 0.061   (Round to the nearest thousandths when necessary.)

    A) 1,216.968          B) 1,216.918          C) 12,169.68         D) 12,169.18

164) _____

Answer: D

Explanation:   A)
                     B)
                     C)
                     D)

First use front-end rounding to write an estimate of the answer, and then subtract the decimals to obtain an exact answer.

165)     Estimate       Problem

                     39.84
       - _____    -  4.45

165) _____

    A) Estimate: 34, exact: 35.49          B) Estimate: 36, exact: 35.41
    C) Estimate: 36, exact: 35.49          D) Estimate: 36, exact: 35.39

Answer: D

Explanation:   A)
                     B)
                     C)
                     D)

Round the number as requested.

166) 92,241 to the nearest thousand

    A) 92,100             B) 93,000           C) 92,000          D) 102,000

166) _____

Answer: C

Explanation:   A)
                     B)
                     C)
                     D)

Estimate by using front-end rounding.

      636
167) × 622

167) _____

    A) 1,200             B) 395,600          C) 395,592         D) 360,000

Answer: D

Explanation:   A)
                     B)
                     C)
                     D)

Write the decimal using numbers.

168) four hundred fourteen thousandths 168) _____

    A) 4,140       B) 400.014       C) 400.0014       D) 0.414

Answer: D
Explanation:     A)
                        B)
                        C)
                        D)

Perform the addition.

169) 25.95 + 3.93 + 0.0208 + 0.691 169) _____

    A) 22.6902       B) 22.7318       C) 30.5918       D) 30.5502

Answer: C
Explanation:     A)
                        B)
                        C)
                        D)

Round the number as requested.

170) 7,635 to the nearest thousand 170) _____

    A) 8,000       B) 8,100       C) 9,000       D) 7,890

Answer: A
Explanation:     A)
                        B)
                        C)
                        D)

Solve the problem.

171) BT&T charges $0.36 for the first minute and $0.17 for each additional minute for a long-distance 171) _____
call. How much will a 10 minute long-distance call cost?

    A) $1.89       B) $2.06       C) $3.60       D) $1.70

Answer: A
Explanation:     A)
                        B)
                        C)
                        D)

Find the gross pay at the given rate. Round to the nearest cent.

172) 11.6 hours at $7.16 per hour and 7.5 hours at $13.68 per hour 172) _____

    A) $195.66       B) $185.66       C) $175.66       D) $195.76

Answer: B
Explanation:     A)
                        B)
                        C)
                        D)

Solve the problem.

173) Jessie has a ribbon that is 23.8 yards long. He wants to cut it into pieces that are 1.7 yards long. How       173) _____
many 1.7-yard pieces will he get from the ribbon?

    A) 15 pieces                B) 140 pieces                C) 13 pieces                D) 14 pieces

Answer: D

Explanation:    A)
                                    B)
                                    C)
                                    D)

174) Ray's gross pay is $321.20 a week. $46 is withheld for federal income tax, $24.12 for FICA tax, and $       174) _____
11.24 for other deductions. How much of his pay is left?

    A) $229.84                B) $239.84                C) $81.36                D) $402.56

Answer: B

Explanation:    A)
                                    B)
                                    C)
                                    D)

Round the number as requested.

175) 6,433 to the nearest hundred       175) _____

    A) 6,300                B) 6,400                C) 6,410                D) 6,500

Answer: B

Explanation:    A)
                                    B)
                                    C)
                                    D)

Solve the problem.

176) Jack borrowed $320 from his brother. Jack's brother wants 6 monthly payments of $85 to repay the       176) _____
loan. How much extra is Jack's brother charging for the loan?

    A) $105                B) $190                C) $510                D) $610

Answer: B

Explanation:    A)
                                    B)
                                    C)
                                    D)

177) A television offer advertised a set of knives for $15 down and $8 a month for 6 months. What is the       177) _____
total cost of the knives?

    A) $73                B) $48                C) $63                D) $53

Answer: C

Explanation:    A)
                                    B)
                                    C)
                                    D)

178) Each gallon of shingle stain covers 120 square feet. How many gallons are needed to cover 360       178) _____
square feet?

    A) 1 gal               B) 3 gal               C) 2 gal               D) 4 gal

Answer: B

Explanation:     A)
                     B)
                     C)
                     D)

179) A group of 8 people wants to buy a boat. The boat costs $896. If they all pay the same amount, how       179) _____
much is each person's share?

    A) $122              B) $102              C) $112              D) $99

Answer: C

Explanation:     A)
                     B)
                     C)
                     D)

Write the decimal using numbers.

180) fourteen and two hundredths       180) _____

    A) 14.02             B) 14.2              C) 1,402              D) 14.002

Answer: A

Explanation:     A)
                     B)
                     C)
                     D)

Divide.

181) $8\overline{)408}$       181) _____

    A) 42                B) 51                C) 52                D) 41

Answer: B

Explanation:     A)
                     B)
                     C)
                     D)

Solve the problem.

182) The pharmacist mixed 5.76 grams of one drug with 4.916 grams of another drug. What was the       182) _____
weight of the mixture?

    A) 9.832 g           B) 10.676 g          C) 11.776 g          D) 11.52 g

Answer: B

Explanation:     A)
                     B)
                     C)
                     D)

Estimate by using front-end rounding.

183)      553
183)  - 118                                                   183) _____

    A) 700                    B) 500                 C) 435                D) 400

Answer: B
Explanation:   A)
                   B)
                   C)
                   D)

Solve the problem.

184) A stockbroker bought 55 shares of stock for $44.31 each. What was the total amount of the     184) _____
purchase?

    A) $2,437.16           B) $2,437.15          C) $2,436.95         D) $2,437.05

Answer: D
Explanation:   A)
                   B)
                   C)
                   D)

185) The city bridge has 7 lanes, all carrying equal numbers of cars. If 385 cars drive across the bridge,   185) _____
how many cars cross in each lane?

    A) 56 cars            B) 62 cars          C) 55 cars         D) 392 cars

Answer: C
Explanation:   A)
                   B)
                   C)
                   D)

Write the decimal in words.

186) 8.00606                                                               186) _____
    A) eight and sixty-six hundred-thousandths
    B) eight and six hundred six ten-thousandths
    C) eight and six hundred six hundred-thousandths
    D) eight and sixty thousand six hundredths

Answer: C
Explanation:   A)
                   B)
                   C)
                   D)

Perform the addition.

187) 11.23 + 14.219                                                    187) _____
    A) 2.989                   B) 25.549          C) -2.989         D) 25.449

Answer: D
Explanation:   A)
                   B)
                   C)
                   D)

First use front-end rounding to write an estimate of the answer, and then add the decimals to obtain an exact answer.

188)     Estimate     Problem     188) _____

$$
\begin{array}{r}
6.2 \\
2.6126 \\
+\ 6.5296 \\
\hline
\end{array}
$$

+ _____

A) Estimate: 15, exact: 15.3322          B) Estimate: 16, exact: 15.3422
C) Estimate: 14, exact: 14.3322          D) Estimate: 14, exact: 14.3422

Answer:  B
Explanation:   A)
               B)
               C)
               D)

Perform the subtraction.

$$
\begin{array}{r}
55 \\
189)\ -\ 34 \\
\hline
\end{array}
$$

189) _____

A) 21          B) 89          C) 31          D) 13

Answer:  A
Explanation:   A)
               B)
               C)
               D)

Perform the indicated operation.

190) $2.21 \div 0.074$  (Round to the nearest hundredths when necessary.)     190) _____
A) 2.99          B) 3.04          C) 29.86          D) 30.36

Answer:  C
Explanation:   A)
               B)
               C)
               D)

Round the number to the nearest thousandth, nearest hundredth, and nearest tenth. Remember to round from the original number.

191) 63.724     191) _____
A) 63.725, 63.73, 64          B) 63.73, 63.8, 64
C) 63.72, 63.7, 63          D) 63.724, 63.72, 63.7

Answer:  D
Explanation:   A)
               B)
               C)
               D)

Solve the problem.

192) A country club wants to provide seating for 206 people in its banquet room. If the club has 19 tables    192) \_\_\_\_\_
that seat 6 people, how many tables does it need that seat 4 people?

    A) 25 tables            B) 22 tables            C) 23 tables            D) 24 tables

Answer: C

Explanation:     A)
                 B)
                 C)
                 D)

193) Carla's gross pay is $169 a week. $13 was withheld for federal income tax, $13 for FICA tax, and $6    193) \_\_\_\_\_
for other deductions. How much of her pay is left?

    A) $32                 B) $201                C) $147               D) $137

Answer: D

Explanation:     A)
                 B)
                 C)
                 D)

Write the decimal using numbers.

194) two hundred and fifteen ten-thousandths                                  194) \_\_\_\_\_

    A) 0.215               B) 200.015            C) 0.0215            D) 200.0015

Answer: D

Explanation:     A)
                 B)
                 C)
                 D)

Perform the addition.

195) $13.11 + 146.6 + 9.25 + 0.0117 + 0.546$                                  195) \_\_\_\_\_

    A) 169.5177         B) 151.0177         C) 150.9943         D) 169.4943

Answer: A

Explanation:     A)
                 B)
                 C)
                 D)

Solve the problem.

196) Sales at Andrea's Formal Wear Shop were $877 this week. This is $183 less than the sales last week.    196) \_\_\_\_\_
What were last week's sales?

    A) $694               B) $1,060           C) $1,049           D) $1,071

Answer: B

Explanation:     A)
                 B)
                 C)
                 D)

197) Gina is buying a used car that has an advertised price of $3,500. She is buying the car on credit and      197) _____
must make a down payment of $900 and 30 monthly payments of $114. What is the total cost of the
car?

    A) $4,320               B) $4,206               C) $4,434               D) $3,614

Answer: A

Explanation:    A)
                      B)
                      C)
                      D)

Round the number as requested.

198) 627 to the nearest hundred      198) _____

    A) 500               B) 700               C) 600               D) 610

Answer: C

Explanation:    A)
                      B)
                      C)
                      D)

Round the amount to the nearest cent.

199) $46.266      199) _____

    A) $46.27               B) $46.30               C) $46.26               D) $46.00

Answer: A

Explanation:    A)
                      B)
                      C)
                      D)

200) $56.59200      200) _____

    A) $56.60               B) $56.59               C) $56.589               D) $56.58

Answer: B

Explanation:    A)
                      B)
                      C)
                      D)

Estimate by using front-end rounding.

201)      201) _____

      7,466
        45
      936
  + 5,284
      ——————

    A) 12,950               B) 13,731               C) 13,740               D) 13,730

Answer: A

Explanation:    A)
                      B)
                      C)
                      D)

Solve the problem.

202) The following chart shows e-Train Company's expenses by department for each of the first six months of the year.

| Department | Jan | Feb | Mar | Apr | May | Jun | Totals |
|---|---|---|---|---|---|---|---|
| Office | $39,396 | $49,547 | $43,293 | $36,565 | $45,629 | $28,612 | |
| Sales | $47,249 | $46,195 | $54,423 | $67,868 | $68,448 | $71,017 | |
| Production | $42,934 | $36,693 | $31,656 | $26,943 | $37,919 | $34,894 | |
| Totals | | | | | | | |

202) _____

A)

| Jan | Feb | Mar | Apr | May | Jun | Totals |
|---|---|---|---|---|---|---|
| | | | | | | $214,430 |
| | | | | | | $284,183 |
| | | | | | | $176,145 |
| $129,579 | $132,435 | $129,372 | $131,376 | $151,996 | $134,523 | $674,758 |

B)

| Jan | Feb | Mar | Apr | May | Jun | Totals |
|---|---|---|---|---|---|---|
| | | | | | | $242,042 |
| | | | | | | $354,200 |
| | | | | | | $210,039 |
| $129,579 | $132,435 | $129,372 | $131,376 | $151,996 | $134,523 | $806,281 |

C)

| Jan | Feb | Mar | Apr | May | Jun | Totals |
|---|---|---|---|---|---|---|
| | | | | | | $243,042 |
| | | | | | | $355,200 |
| | | | | | | $211,039 |
| $129,579 | $132,435 | $129,372 | $131,376 | $151,996 | $134,523 | $809,281 |

D)

| Jan | Feb | Mar | Apr | May | Jun | Totals |
|---|---|---|---|---|---|---|
| | | | | | | $244,042 |
| | | | | | | $356,200 |
| | | | | | | $212,039 |
| $129,579 | $132,435 | $129,372 | $131,376 | $151,996 | $134,523 | $812,281 |

Answer: C
Explanation: A)
           B)
           C)
           D)

Divide, dropping zeros from the divisor.

203) 70$\overline{)4030}$

A) 61             B) 57 R40             C) 57             D) 57 R60

Answer: B
Explanation: A)
           B)
           C)
           D)

203) _____

Perform the addition.

204) 6.222 + 5.785

    A) -0.437           B) 0.437           C) 12.107           D) 12.007

204) _____

Answer: D

Explanation:   A)
                       B)
                       C)
                       D)

Divide.

205) $49 \overline{)738}$

    A) 14 R40           B) 15 R3           C) 15           D) 13 R7

205) _____

Answer: B

Explanation:   A)
                       B)
                       C)
                       D)

Divide, dropping zeros from the divisor.

206) $70 \overline{)2880}$

    A) 42           B) 41           C) 41 R10           D) 41 R60

206) _____

Answer: C

Explanation:   A)
                       B)
                       C)
                       D)

Write the decimal using numbers.

207) twelve and seven thousandths

    A) 12.07           B) 12.7           C) 12.007           D) 12.0007

207) _____

Answer: C

Explanation:   A)
                       B)
                       C)
                       D)

Write the unit cost, rounded to the nearest cent.

208) If 4 books cost $3.97, then one book costs $0.9925.

    A) $0.89           B) $0.99           C) $3.97           D) $1.09

208) _____

Answer: B

Explanation:   A)
                       B)
                       C)
                       D)

Round the number to the nearest thousandth, nearest hundredth, and nearest tenth. Remember to round from the original number.

209) 327.726

    A) 327.726, 327.72, 328                                B) 327.73, 327.7, 327

    C) 327.726, 327.73, 327                                   D) 327.726, 327.73, 327.7

209) _____

Answer: D

Explanation:   A)
                      B)
                      C)
                      D)

Solve the problem.

210) The following chart shows Maid-for-You's monthly sales by salesperson for each of the first six months of the year.

210) _____

| Salesperson | Jan | Feb | Mar | Apr | May | Jun | Totals |
|---|---|---|---|---|---|---|---|
| Kathy | $23,539 | $22,351 | $23,872 | $23,994 | $19,201 | $20,105 | |
| Brenda | $29,031 | $28,828 | $28,428 | $28,475 | $29,377 | $27,124 | |
| Gesela | $31,530 | $41,353 | $39,099 | $42,369 | $31,142 | $37,805 | |
| Totals | | | | | | | |

A)

| Jan | Feb | Mar | Apr | May | Jun | Totals |
|---|---|---|---|---|---|---|
| | | | | | | $133,062 |
| | | | | | | $171,263 |
| | | | | | | $223,298 |
| $84,100 | $92,532 | $91,399 | $94,838 | $79,720 | $85,034 | $527,623 |

B)

| Jan | Feb | Mar | Apr | May | Jun | Totals |
|---|---|---|---|---|---|---|
| | | | | | | $112,957 |
| | | | | | | $144,139 |
| | | | | | | $185,493 |
| $84,100 | $92,532 | $91,399 | $94,838 | $79,720 | $85,034 | $442,589 |

C)

| Jan | Feb | Mar | Apr | May | Jun | Totals |
|---|---|---|---|---|---|---|
| | | | | | | $134,062 |
| | | | | | | $172,263 |
| | | | | | | $224,298 |
| $84,100 | $92,532 | $91,399 | $94,838 | $79,720 | $85,034 | $530,623 |

D)

| Jan | Feb | Mar | Apr | May | Jun | Totals |
|---|---|---|---|---|---|---|
| | | | | | | $132,062 |
| | | | | | | $170,263 |
| | | | | | | $222,298 |
| $84,100 | $92,532 | $91,399 | $94,838 | $79,720 | $85,034 | $524,623 |

Answer: A

Explanation:   A)
                      B)
                      C)
                      D)

1) If the digit to the right of the one you are rounding to is 5 or larger add 1 to the digit you are rounding to. If the digit is 4 or smaller, do not change it. Drop all digits to the right of the digit you are rounding to. Replace each dropped digit to the left of the decimal point, if any, with 0. Another way is truncation. Drop all the digits to the right of a given decimal place.
2) The division of the numerator and denominator of a fraction terminates by giving a remainder of 0 as you carry out the division. A repeating decimal has one or more digits repeat over and over as you carry out the division.
3) It helps reduce errors by making it easier to see which column a digit is in.
4) The number of decimal places in the product is found by adding the number of decimal places in each factor.
5) Move the decimal point to the left the number of places equal to the number of zeros in the power of ten.
6) Move the decimal point to the right the number of places equal to the number of zeros in the power of ten.
7) It keeps digits with like place values in the same column. This is important because you subtract in division, and like named digits must be in the same column.
8) D
9) B
10) C
11) C
12) B
13) D
14) C
15) B
16) D
17) A
18) C
19) D
20) C
21) C
22) D
23) B
24) D
25) A
26) C
27) B
28) B
29) B
30) A
31) D
32) D
33) B
34) A
35) C
36) B
37) D
38) D
39) B
40) D
41) C
42) D
43) C
44) D
45) B

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

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

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

196) B
197) A
198) C
199) A
200) B
201) A
202) C
203) B
204) D
205) B
206) C
207) C
208) B
209) D
210) A