Decimal Numbers


$$
\begin{aligned}
10 & -1 \text { place } \\
100 & -2 \text { places } \\
1,000 & -3 \text { places } \\
10,000 & -4 \text { places }
\end{aligned}
$$

## Write in words

10.003
14.36
0.0006

Write as decimal numbers
Twenty seven and two tenths

Five hundred and forty-four ten thousandths

Ten and one hundredth

## Addition of Decimal Numbers

1. Line up the decimal points vertically.
2. Attach zeros to provide the same number of decimal digits (as needed).
3. Add the numbers.
4. Place answer decimal point in the same vertical line.

## Ex. 1 - Add the following $5.24+4.168$



## Subtraction of Decimal Numbers

1. Line up the decimal points vertically.
2. Attach zeros to provide the same number of decimal digits.
3. Subtract the numbers (borrow if necessary).
4. Place answer decimal point in the same vertical line.

## Ex. 1 Subtrat the folowing 5.24-4.168



## Multiplication of Decimal Numbers

1. Multiply the two decimal numbers as if they were whole numbers. Pay no attention to the decimal points.
2. The sum of the decimal digits in the two numbers being multiplied will give you the number of decimal digits in the answer.
Ex. 1 - Multiply the following $5.24 \times 4.168$
$5 \quad 2 \quad 4$
$5 \quad 24$

$\begin{array}{lllll}3 & 1 & 4 & 4 & 0\end{array}$
52440
2096000
2184032

## Division of Decimal Numbers

1. Write the divisor and dividend in standard long-division form.
2. Shift the decimal point in the divisor to the right so as to make the divisor a whole number.
3. Shift the decimal point in the dividend the same amount (attach zeros if necessary).
4. Place the decimal point in the answer space directly above the new decimal position in the dividend.
5. Now divide exactly as you would with whole numbers. The decimal point in divisor and dividend may now be ignored.

Ex. 1 - Divide the following. Round to the nearest tenth. $15.270 \div 3.2$


1. For the following machine parts, find $W$, the number of pounds per part: $C$, the cost of the metal per part; and T , the total cost.

| Metal Parts | Number of <br> Inches Need- <br> ed | Number of <br> Pounds per <br> Inch | Cost per <br> Pound | Pounds <br> (W) | Cost per <br> Part (C) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| A | 50.2 | 0.38 | $\$ 0.95$ |  |  |
| B | 115.6 | 0.19 | $\$ 0.72$ |  |  |
| C | 98.1 | 0.08 | $\$ 1.03$ |  |  |
| D | 10.3 | 0.32 | $\$ 2.42$ |  |  |

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