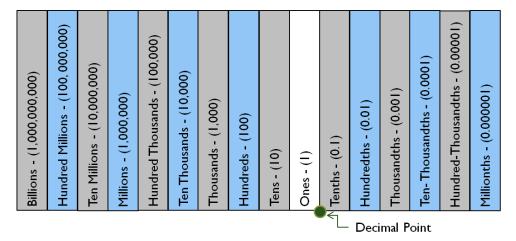
# WLD 105 Print Reading and & Weld Design

#### **Decimal Numbers**



10 - I place

100 - 2 places

1,000 - 3 places

10,000 - 4 places

#### 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 - Subtract the following 5.24 - 4.168

4

# **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	2	4					5	2	4
	×	,	4	I	6	8	$\Rightarrow$		X	4	I	6	8
			4		9	2	•	2	I	. 8	4	0 3	2
		3	I	4	4	0							
		5	2	4	0	0							
2	0	9	6	0	0	0							
~	I	Ω	4	0	3	7							

#### **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.  $15.270 \div 3.2$ 

477 Answer is 4.8

3.2 
$$15.270$$
 $128$ 
 $247$ 
 $224$ 
 $230$ 
 $224$ 
 $6$ 

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 Inches Need- ed	Number of Pounds per Inch	Cost per Pound	Pounds (W)	Cost per Part (C)
А	50.2	0.38	\$0.95		
В	115.6	0.19	\$0.72		
С	98.1	0.08	\$1.03		
D	10.3	0.32	\$2.42		

*i* = \_\_\_\_\_

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