

L51 Scientific Notation

Coefficient \times power of 10

→ Single digit
to left of decimal

→ 10^x

$$3.25 \times 10^5$$

move 5 spaces →

3 25 000.

325,000

759 000 000 000 000 000 000

$$7.59 \times 10^{17}$$

25 000 000 000 000 000

$$2.5 \times 10^{12}$$

P
E
MD
AS } left to right

$$24 - 8 - 6 \cdot 2 \div 4$$

$$24 - 8 - 12 \div 4$$

$$24 - 8 - 3$$

$$16 - 3$$

$$\textcircled{13}$$

$$a + \underline{ab} - c + a$$

$$a = 4$$

$$b = 2$$

$$c = 1$$

$$(4) + (4)(2) - (1) + (4)$$

$$4 + 8 - 1 + 4$$

$$12 - 1 + 4$$

$$11 + 4$$

$$\textcircled{15}$$

If the ratio of lions to bears is 7 to 12, how many bears are there if there are 42 lions?

	Ratio	AC	
l	7	42	42 12 <hr/> 84 420 <hr/> 504
b	12	b	

$$\frac{7}{12} \times \frac{42}{b} \rightarrow 7b = 504$$
$$b = 504 \div 7$$
$$= \textcircled{72 \text{ bears}}$$

K.I. scored an average of 18 pts. after playing 5 games. How many points did he score in all?

$$S = A \times n$$

$$n = S \div A$$

$$18 = S \div 5$$

$$S = 18 \times 5$$

$$S = 90 \text{ pts}$$

$$\text{Avg} = \text{Sum} \div \text{\# of addends}$$

$$A = S \div n$$

After 5 games of bowling, Alema's avg. score was 91. After 6 games his avg. was 89. What was his score in the 6th game?

$$91 = S \div 5$$

$$S = 91 \times 5$$

$$= 455$$

$$\begin{array}{r} 455 \\ + 124 \\ \hline 579 \\ - 455 \\ \hline 124 \end{array}$$

$$89 = S \div 6$$

$$S = 89 \times 6$$

$$= 534$$

The avg. of 4 #'s is 16.

If the first 3 #'s are 18, 14 and 20,
what is the 4th #?

$$16 = S \div 4$$

$$S = 16 \times 4 \\ = 64$$

$$18 + 14 + 20 + x = 64$$

$$52 + x = 64$$

$$x = 64 - 52$$

$$x = 12$$

$$\frac{\overset{8}{\cancel{24}} \text{ ft}}{1} \times \frac{\$4}{\cancel{1} \text{ yd}} \times \frac{\cancel{1} \text{ yd}}{\cancel{3} \text{ ft}} = \$32$$