Corner Brook Intermediate

Math 7

Unit 3: Fractions, Decimals and Percents

Solving Percent Problems

"of" means multiply

Example (1): Find each of the following percentages.

A. 15% of 32

0.15×32

4.8

$.15 \times 32$

$30 + 450 = 480$

4.80

B. 2% of 12

0.02×12

0.24

12×0.02

$.24$

① change percent to decimal

② of mean multiply

③ use decimal multiplication rules:

- treat as whole #'s
- last step place decimal.

Example (2): A jacket originally cost $48.00.
It is on sale for 25% off.

A. What is the discount dollar amount?

Discount is 25% of $48

Discount $= 0.25 \times 48$

$= \$12$

$.25 \times 48 = 200 + 1000 = 12.00$

B. What is the sale price of the jacket?

Sale Price = Original Amount − Discount

$= 48 - 12$

$= \$36$

"is" means equal

Example (3): The price of a sweater costs $36.
The Goods and Services tax is 8%.

A. Find the dollar amount of taxes.

Tax is 8% of $36

Tax = 0.08 × 36

= $2.88

$$\begin{array}{r} {}^{4}36 \\ \times 0.08 \\ \hline 2.88 \end{array}$$

B. Find the total amount paid.

Total Cost = Original amount + taxes

= 36 + 2.88

= $38.88

$$\begin{array}{r} 36.00 \\ +\ 2.88 \\ \hline 38.88 \end{array}$$

Add/Sub Decimals

- line up decimals
- use zeros as place holders.