Percent of a Number

To find the percent OF a number:

__Method ①__ convert the __percent__ to a __decimal__, then __multiply__!

   Ex. Find 23.1% of 408

$$23.1 \div 100 = 0.231 \qquad \text{Divide OR move Decimal}$$
$$\qquad\qquad\qquad\qquad\qquad\qquad\text{2 spaces Left}$$

$$0.231 \times 408 = 94.248$$

   Ex. Find 71¾% of 510

$$71.75\%$$

$$0.7175 \times 510 = 365.925$$

__Method ②__ Set up a proportion, then cross-multiply
     and divide.

   Ex. Find 138% of 425   % means per 100

$$\frac{138}{100} = \frac{?}{425} \qquad 138 \times 425 \div 100 = 586.5$$

word Problems

   Taxes — Find the tax and ADD

   Sale Prices — Find the discount and SUBTRACT

Ex. Layla is buying a new dress. It costs

$ 29.55, and the tax is 11.5%. Find the total.

Tax: 11.5% of $29.55

$$0.115 \times 29.55 = \$3.39825 \qquad \$3.40$$

Total: $29.55 + $3.40 = $\boxed{\$32.95}$

Ex. A necklace costs $165.35. It's on a 30% off
sale. What is the sale price?

Discount :   30% of $165.35

$$\frac{30}{100} = \frac{?}{165.35} \qquad 30 \times 165.35 \div 100 = \$49.605$$
$$\$49.61$$

Sale price : $165.35 − $49.61 = $\boxed{\$115.74}$

* NOTE:

percent	decimal
75% =	0.75
7.5% =	0.075

$$\frac{3}{4}\% = 0.75\% = 0.0075$$