8) ~~[illegible]~~

What percent is 250 gram of 1 kg?

Solution:

Percentage = ?

Base = 1 kg

1 kg = 1000g

Amount = 250g

Formula

$$\text{Percentage} = \frac{\text{Amount}}{\text{Base}} \times 100$$

By putting values in the given formula;

$$\text{Percentage} = \frac{\cancel{250}^{25}\,g}{\cancel{1000}_{1}\,g} \cancel{\times 100}$$

$$\boxed{\text{Percentage} = 25\%}$$

5

7) 25% of a number is 300. the number is ?

Solution

Percentage = 25%

Base = 300

Amount = ?

Formula

Percentage . Base = Amount

$x = 25\% \times 300$

$x = \frac{25}{\cancel{100}_1} \times \cancel{300}^3$

$x = 25 \times 3$

$x = 75$

$$\boxed{\text{Amount} = 75}$$

5) 30 is 20% of what number?

Solution:

Percentage = 20%

Amount = 30

Base = ?

formula:

Percentage . Base = Amount

$20\% \cdot x = 30$

$\frac{20x}{100} = \frac{30}{1}$

$20x = 30 \times 100$

$x = \frac{\cancel{3000}^{150}}{\cancel{20}_{1}}$

$x = 150$

$\boxed{\text{Base} = 150}$

5

Case : 2 "Time Frame"

2) A man's income is Rs. 8400/day. Given that his original income was Rs. 7500/day, find the percentage increase in his daily income?

Solution

Daily income = 8400 Rs.
Original " = 7500 Rs.
Increased percent = ?

Formula.

$$\text{Percentage} = \frac{\text{new value} - \text{old value}}{\text{old value}} \times 100$$

By putting values in the given formula;

$$\text{Percentage} = \frac{7500 - 8400}{7500} \times 100$$

$$\text{Percentage} = \frac{\cancel{900}^{180}}{\cancel{7500}_{15}} \times \cancel{100} = \frac{\cancel{180}^{\cancel{36}^{12}}}{\cancel{15}_{3}} = 12\%$$

$$\boxed{\text{Percentage} = 12\%}$$

12% rise in salary.

5