

Maths Tests

① Find 12% of 800 $= \frac{12}{100} \times 800 = 96$

② Let the required number be x . Then,

40% of $x = 8$
 $\frac{40}{100} \times x = 8 = x \div \frac{8 \times 100}{40} = x = 20$

Hence the number is 20.

③ Aniket secured 75% marks in an examination. If he secured 450 marks, find the maximum marks.

sol: Let maximum marks be x .

Then, 75% of $x = 450$

$$\frac{75}{100} \times x = 450$$

$$x = \frac{450 \times 100}{75} = 600$$

Hence, the maximum marks 600.

④ CP of machine = ₹ 3750

overhead expenses = ₹ 250

$$\text{Effective CP} = ₹ (3750 + 250)$$

$$= ₹ 4000$$

Gain = ₹ 40

$$\text{Gain \%} = \frac{(\text{Gain} \times 100)}{\text{CP}} \%$$

$$= \frac{(40 \times 100)}{4000} \% = 1\%$$

Hence, Gain per cent is 1%

⑤ $P = ₹1200$, $A = ₹1600$, $T = 6$ years, $R = ?$

Interest = Amount - Principal

Interest = ₹(1600 - 1200) = ₹400

$$SI = \frac{P \times R \times T}{100} = 400 = \frac{1200 \times R \times 6}{100}$$

$$R = \frac{400 \times 100}{1200 \times 6} = \frac{400}{72} = \frac{50}{9}$$

$R = \frac{50}{9} \% \text{ Per annum.}$

Hence, Rate of interest is $\frac{50}{9} \% \text{ Per annum.}$