Exercise 9B

Q1.

Answer :

(d) 60%

$$\frac{3}{5} = \left(\frac{3}{5} \times 100\right)\% = 60\%$$

Q2.

Q3.

Answer :

(c) 120%

$$6:5=\frac{6}{5}$$

$$=\left(\frac{6}{5}\times 100\right)\%$$

$$=120\%$$

Q4.

Answer :

(d) 180

Let x be the required number. Then, we have :

$5\%\ of\ x = 9$

$\Rightarrow \left(x \times \frac{5}{100}\right) = 9$

$\Rightarrow \frac{5x}{100} = 9$

$\Rightarrow x = \left(9 \times \frac{100}{5}\right)$

$\Rightarrow x = 180$

Q5.

Answer :

(c) $133\frac{1}{3}\%$

Required percentage $= \left(\frac{120}{90} \times 100\right)\% = 133\frac{1}{3}\%$

Q6.

Answer :

(d) 2.5%

Required percentage $= \left(\frac{250}{(10 \times 1000)} \times 100\right)\% = 2.5\%$

Q7

Answer :

(b) 600

Let the required number be x. Then, we have :

$40\% \ of \ x = 240$

$\Rightarrow \left(x \times \frac{40}{100}\right) = 240$

$\Rightarrow \frac{40x}{100} = 240$

$\Rightarrow x = \left(240 \times \frac{100}{40}\right)$

$\Rightarrow x = 600$

Q8

Answer :

(c) 15

Let the required number be x. Then, we have :

$x\% \ of \ 400 = 60$

$\Rightarrow \left(400 \times \frac{x}{100}\right) = 60$

$\Rightarrow \frac{400x}{100} = 60$

$\Rightarrow 4x = 60$

$\Rightarrow x = \frac{60}{4}$

$\Rightarrow x = 15$

Q9

Answer :

(d) 560

Let the required number be x. Then, we have :

$(180\% \ of \ x) \div 2 = 504$

$\Rightarrow \left(x \times \frac{180}{100}\right) \div 2 = 504$

$\Rightarrow \left(\frac{180x}{100}\right) \div 2 = 504$

$\Rightarrow \left(\frac{180x}{100} \times \frac{1}{2}\right) = 504$

$\Rightarrow \frac{9x}{10} = 504$

$\Rightarrow x = \left(504 \times \frac{10}{9}\right)$

$\Rightarrow x = 560$

Q10

Answer :

(a) Rs 160

$20\%\ \ of\ \ Rs\ \ 800 = Rs\ \ \left(800 \times \frac{20}{100}\right)$

$= Rs\ \ 160$

Q11

Answer :

(c) 175

Let the maximum marks be x. Then, we have :

$56\%\ of\ x = \left(x \times \frac{56}{100}\right)$

$= \frac{56x}{100}$

Now, $\frac{56x}{100} = 98$

$\Rightarrow x = \left(98 \times \frac{100}{56}\right)$

$\Rightarrow x = 175$

********** END **********