



Exercise 10D

Number of girls = 840

$$5x = 840$$

$$\Rightarrow x = \frac{840}{5} = 168$$

Number of boys = $12x = 12 \times 168 = 2016$

Number of girls = 840

Total strength of the school = $2016 + 840 = 2856$

Q12

Answer :

(b) Rs 161

Cost of 12 pens = Rs 138

$$\text{Cost of 1 pen} = \text{Rs } \frac{138}{12}$$

$$\text{Cost of 14 pens} = \text{Rs } \frac{138}{12} \times 14 = \text{Rs } \frac{1932}{12} = \text{Rs } 161$$

Q13

Answer :

(b) 45 days

Time taken by 24 workers to build a wall = 15 days

Time taken by 1 worker to build a wall = $24 \times 15 = 360$ days (clearly less workers will take more time to build a wall)

$$\text{Time taken by 8 workers to build a wall} = \frac{360}{8} = 45 \text{ days}$$

Q14

Answer :

(a) 52

Number of men required to finish the work in 26 days = 40

Number of men required to finish it in 1 day = $40 \times 26 = 1040$ men (More men means less days)

$$\text{Number of men required to finish it in 20 days} = \frac{1040}{20} = 52$$

Q15

Answer :

(b) 185 km

Distance covered in 6 L of petrol = 111 km

Distance covered in 1 L of petrol = $\frac{111}{6}$ km

Distance covered in 10 L of petrol = $\frac{111}{6} \times 10 = \frac{1110}{6} = 185$ km

Q16

Answer :

(a) 22 days

Number of days for which 550 men had provisions = 28 days

Number of days for which 1 man had provisions = $28 \times 550 = 15400$ days (more men means less days)

Number of days for which 700 men had provisions = $\frac{15400}{700} = 22$ days

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