Exercise 10C

Q12

Answer :

(i) Time taken by the car to travel 195 km = 3 hours

Time taken by it to travel 1 km = $\frac{3}{195}$ hours

Time taken by it to travel 520 km = $520 \times \frac{3}{195}$ = $\frac{1560}{195}$ = 8 hours

(ii) Distance covered by the car in 3 hours = 195 km

Distance covered by it in 1 hour = $\frac{195}{3}$ = 65 km

Distance covered by it in 7 hours = 7 × 65 = 455 km

Q13

Answer :

(i) Earning of a labourer in 12 days = Rs 1980

Earning of the labourer in 1 day = $\frac{1980}{12}$ = Rs 165

Earning of the labourer in 7 days = 7 × 165 = Rs 1155

(ii) Number of days taken by the labourer to earn Rs 1980 = 12 days

Number of days taken by him to earn Re 1 = $\frac{12}{1980}$ days

Number of days taken by him to earn Rs 2640 = $2640 \times \frac{12}{1980}$ = $\frac{31680}{1980}$ = 16 days

Q14

Answer :

Weight of 65 books = 13 kg

(i) Weight of 1 book = $\frac{13}{65}$ kg

Weight of 80 books = $80 \times \frac{13}{65}$ = $\frac{1040}{65}$ = 16 kg

(ii) Number of books weighing 13 kg = 65

Number of books weighing 1 kg = $\frac{65}{13}$ = 5

Number of books weighing 6.4 kg = 6.4 × 5 = 32

Q15

Answer :

Number of boxes containing 6000 pens = 48

Number of boxes containing 1 pen = $\frac{48}{6000}$

Number of boxes containing 1875 pens = $1875 \times \frac{48}{6000}$ = $\frac{90000}{6000}$ = 15

15 boxes are needed for 1875 pens.

Q16

Answer:

Number of days taken by 24 workers to build a wall = 15 days

Number of days taken by 1 worker to build the wall = 15 × 24 = 360 days   (less worker means more days)

Number of days taken by 9 workers to build the wall = $\frac{360}{9}$ = 40 days

Q17

Answer:

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

Number of men required to complete the work in 1 day = 40 × 26 = 1040 men (less men more days)

Number of men required to complete the work in 16 days = $\frac{1040}{16}$ = 65

Q18

Answer:

Number of days the provisions will last for 550 men = 28 days

Number of days the provisions will last for 1 man = 28 × 550 = 15400 days (less men means more days)

Number of days the provisions will last for 700 men = $\frac{15400}{700}$ = 22 days

The provision will last for 22 days.

Q19

Answer:

Number of days for which the given quantity of rice is sufficient for 60 persons = 3 days

Number of days for which it is sufficient for 1 person = 3 × 60 = 180 days   (less men means more days)

Number of days for which it is sufficient for 18 persons = $\frac{180}{18}$ = 10 days

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