

Exercise 10C

Q12

Answer:

(i) Time taken by the car to travel 195 km = 3 hours Time taken by it to travel 1 km = 3 hours

195

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

(ii) Distance covered by the car in 3 hours = 195 km Distance covered by it in 1 hour = 195 = 65 km

3

Distance covered by it in 7 hours = $7 \times 65 = 455$ km

Q13

Answer:

(i) Earning of a labourer in 12 days = Rs 1980 Earning of the labourer in 1 day = 1980 = 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 = 12 days

1980

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

Q14

Answer:

Weight of 65 books = 13 kg

(i) Weight of 1 book = 13 kg

65

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

(ii) Number of books weighing 13 kg = 65

Number of books weighing 1 kg = 65 = 5

13

Number of books weighing $6.4 \text{ kg} = 6.4 \times 5 = 32$

Q15

Answer:

Number of boxes containing 6000 pens = 48

Number of boxes containing 1 pen = 48

6000

Number of boxes containing 1875 pens = 1875 × <u>48</u> = <u>90000</u> = 15

6000 6000

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 = $15 \times 24 = 360$ days (less worker means more days)

Number of days taken by 9 workers to build the wall = 360 = 40 days

0

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 = $40 \times 26 = 1040$ men (less men more days) Number of men required to complete the work in 16 days = $\underline{1040} = 65$

16

Q18

Answer:

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

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

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

700

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 = $3 \times 60 = 180$ days (less men means more days)

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

18

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