

Exercise 2B

solution 07

Answer:

Capacity of 1 tin =
$$12\frac{3}{4}$$
 $L = \frac{51}{4}$ L
 \therefore Capacity of 26 such tins = $\left(26 \times \frac{51}{4}\right)$ L
= $\left(\frac{26}{1} \times \frac{51}{4}\right)$ $L = \left(\frac{26 \times 51}{1 \times 4}\right)$ $L = \left(\frac{13 \times 51}{1 \times 2}\right)$ $L = \left(\frac{663}{2}\right)$ $L = 331\frac{1}{2}$ L

Hence, 26 such tins can hold $331\frac{1}{2}$ L of oil.

solution 08

Answer:

Cost of 1 ticket = Rs
$$35\frac{1}{2}$$
= Rs $\frac{71}{2}$
 \therefore Cost of 308 tickets = Rs $\left(\frac{71}{2} \times 308\right)$ = Rs $\left(\frac{71}{2} \times \frac{308}{1}\right)$ = Rs $\left(71 \times 154\right)$ = Rs 10934

Hence, 308 tickets were sold for Rs 10,934.

solution 09

Answer:

Thickness of 1 board =
$$3\frac{2}{3}$$
 cm
 \therefore Thickness of 9 boards = $\left(9\times 3\frac{2}{3}\right)$ cm
 = $\left(\frac{9}{1}\times\frac{11}{3}\right)$ cm = (3×11) cm = 33 cm

Hence, the height of the stack is 33 cm.

solution 10

Answer:

Time taken by Rohit to complete one round of the circular park = $4\frac{4}{5}$ min = $\frac{24}{5}$ min

∴ Time taken to complete 15 rounds =
$$\left(15 \times \frac{24}{5}\right)$$
 min = (3×24) min = 72 min = 1 h 12 min [∵ 1 hr = 60 min]

Hence, Rohit will take 1 h 12 min to make 15 complete rounds of the circular park.

solution 11

Answer:

W

Weight of Amit = 35 kg

Weight of Kavita = $\frac{3}{5}$ of Amit's weight

= 35 kg x
$$\frac{3}{5}$$
 = $\left(35 \times \frac{3}{5}\right)$ kg = $\left(7 \times 3\right)$ kg = 21 kg

Hence, Kavita's weight is 21 kg.

solution 12

Answer:

Number of boys in the class = $\frac{5}{7}$ of the total no. of students = $\frac{5}{7}\times42$ = $\left(\frac{5\times42}{7}\right)$ = 5×6 = 30

$$=\frac{5}{7} \times 42 = \left(\frac{5 \times 42}{7}\right) = 5 \times 6 = 30$$

∴ Number of girls in the class = 42 - 30 = 12

Hence, there are 12 girls in the class.