

# 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  $\left(\frac{71}{2}\times308\right)$  = Rs  $\left(\frac{71}{2}\times\frac{308}{1}\right)$  = Rs  $\left(71\times154\right)$  = 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 =  $(3\times11)$  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 =  $(3 \times 24)$  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 =  $\frac{5}{7}\times42$  =  $\left(\frac{5\times42}{7}\right)$  =  $5\times6$  = 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.