

Exercise 2A

$$= \left(15\frac{3}{4} + 12\frac{1}{2} + 15\frac{3}{4} + 12\frac{1}{2}\right) \text{ cm}$$

$$= \left(\frac{63}{4} + \frac{25}{2} + \frac{63}{4} + \frac{25}{2}\right) \text{ cm}$$

$$= \left(\frac{63 + 50 + 63 + 50}{4}\right) \text{ cm} \quad [\because \text{LCM of 2 and 4 = 4}]$$

$$= \left(\frac{226}{4}\right) \text{ cm} = \left(\frac{113}{2}\right) \text{ cm} = 56\frac{1}{2} \text{ cm}$$

Hence, the perimeter of ABCD is  $56\,\frac{1}{2}~cm$ 

### Solution 10

#### Answer:

Actual width of the picture =  $7\frac{3}{5}$  cm =  $\frac{38}{5}$  cm Required width of the picture =  $7\frac{3}{10}$  cm =  $\frac{73}{10}$  cm

$$\therefore \text{ Extra width } = \left(\frac{38}{5} - \frac{73}{10}\right) \text{ cm}$$

$$= \left(\frac{76 - 73}{10}\right) \text{ cm} \qquad [\because \text{ LCM of 5 and 10 is 10}]$$

$$= \frac{3}{10} \text{ cm}$$

Hence, the width of the picture should be trimmed by  $\frac{3}{10}$  cm.

### Solution 11

#### Answer:

Required number to be added =  $18 - 7\frac{3}{5}$ 

$$= \frac{18}{1} - \frac{38}{5}$$

$$= \frac{90 - 38}{5}$$
 [:: LCM of 1 and 5 = 5]
$$= \frac{52}{5} = 10\frac{2}{5}$$

Hence, the required number is  $10\frac{2}{5}$ .

## Solution 12

### Answer:

Required number to be added =  $8\frac{2}{5}-7\frac{4}{15}$   $=\frac{42}{5}-\frac{109}{15}$   $=\frac{126-109}{15}\quad [\because LCM \text{ of 5 and 15 = 15}]$   $=\frac{17}{15}=1\,\frac{2}{15}$ 

Hence, the required number should be  $1\frac{2}{15}$ 

### Solution 13

### Answer:

Required length of other piece of wire = 
$$\left(3\frac{3}{4}-1\frac{1}{2}\right)\mathbf{m}$$
  
=  $\left(\frac{15}{4}-\frac{3}{2}\right)\mathbf{m}$   
=  $\left(\frac{15-6}{4}\right)\mathbf{m}$  [:: LCM of 4 and 2 = 4]  
=  $\frac{9}{4}\mathbf{m} = 2\frac{1}{4}\mathbf{m}$ 

Hence, the length of the other piece of wire is  $2\,\frac{1}{4}\,m$ 

# Solution 14

### Answer:

Actual duration of the film = 
$$\left(3\,\frac{2}{3}-1\,\frac{1}{2}\right)$$
 hours 
$$= \left(\frac{11}{3}-\frac{3}{2}\right)$$
 hours 
$$= \left(\frac{22-9}{6}\right)$$
 hours  $[\because LCM \text{ of } 3 \text{ and } 2=6]$  
$$= \frac{13}{6} \text{ hours} = 2\,\frac{1}{6} \text{ hours}$$

Hence, the actual duration of the film was  $2\frac{1}{6}$  hours.

### Solution 15

### Answer:

First we have to compare the fractions:  $\frac{2}{3}$  and  $\frac{5}{9}$ . By cross multiplication, we have:

$$2 \times 9 = 18$$
 and  $5 \times 3 = 15$ 

However, 
$$18 > 15$$
  
$$\therefore \frac{2}{3} > \frac{5}{9}$$

So, 
$$\frac{2}{3}$$
 is larger than  $\frac{5}{9}$ . Now,  $\frac{2}{3} - \frac{5}{9}$ 

$$= \frac{6-5}{9} \quad [\because LCM \text{ of 3 and 9} = 9]$$
$$= \frac{1}{9}$$

Hence,  $\frac{2}{3}$  is  $\frac{1}{9}$  part more than  $\frac{5}{9}$ .

# Solution 16

## Answer:

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