

Exercise 1G

Q16

# Answer:

Ratio of the read book =  $\frac{7}{9}$ Ratio of the unread book =  $1 - \frac{7}{9}$ 

$$=\frac{2}{9}$$

Let x be the total number of pages in the book.

Thus, we have:

$$\frac{\frac{2}{9} \times x = 40}{\Rightarrow x = 40 \div \frac{2}{9}}$$

$$= 40 \times \frac{9}{2}$$

$$= \frac{40}{1} \times \frac{9}{2}$$

$$= \frac{40 \times 9}{1 \times 2}$$

$$= \frac{360}{2}$$

$$= 180$$

Hence, the total number of pages in the book is 180.

#### Answer:

Amount of money spent on notebooks =  $300 \times \frac{1}{3}$ 

$$= \frac{300}{1} \times \frac{1}{3}$$
$$= \frac{300}{3}$$
$$= 100$$

 $\therefore$  Money left after spending on notebooks = 300-100 = 200

Amount of money spent on stationery items from the remainder =  $\frac{200}{1} \times \frac{1}{4}$  =  $\frac{200}{4}$  = 50

 $\therefore$  Amount of money left with Rita = 200 - 50= Rs 150

### Q18

#### Answer:

Total amount of money Amit earns = Rs 16000 Amount of money spent on food =  $16000 \times \frac{1}{4}$  =  $\frac{16000}{1} \times \frac{1}{4}$  =  $\frac{16000}{4}$  = Rs 4000

 $\therefore$  Amount of money left after spending on food =16000-4000

$$= Rs 12000$$

Amount of money spent on house rent from the remainder  $=12000 imes rac{3}{10}$   $=rac{12000}{1} imes rac{3}{10}$   $=rac{12000 imes 3}{1 imes 10}$   $=rac{36000}{10}$ 

 $\therefore$  Amount of money left after spending on food and house rent =12000-3600

## = Rs 8400

 $= Rs \ 3600$ 

Amount of money spent on children's education from the remainder  $=8400 imes \frac{5}{21}$ 

$$= \frac{8400}{1} \times \frac{5}{21}$$
$$= \frac{42000}{21}$$
$$= Rs \ 2000$$

 $\therefore$  Amount of money left= 8400-2000

#### = Rs 6400

Hence, the amount of money left with Amit is Rs 6400.

# Answer:

Let x be the required number. We know that  $\frac{3}{5}$  of the number exceeds its  $\frac{2}{7}$  by 44. That is,

$$\frac{\frac{3}{5} \times x = \frac{2}{7} \times x + 44}{\frac{3}{5} \times x - \frac{2}{7} \times x = 44}$$

$$\left(\frac{3}{5} - \frac{2}{7}\right) \times x = 44$$

$$\left(\frac{3}{5} + \text{Additive inverse of } \frac{2}{7}\right) \times x = 44$$

$$\left(\frac{21 - 10}{35}\right) \times x = 44$$

$$\frac{11}{35} \times x = 44$$

$$x = 44 \div \frac{11}{35}$$

$$= 44 \times \frac{35}{11}$$

$$= \frac{44}{1} \times \frac{35}{11}$$

$$= \frac{44 \times 35}{1 \times 11}$$

$$= \frac{1540}{11}$$

$$= 140$$

Q20

# Answer:

Ratio of spectators in the open  $=1-\frac{2}{7}$ 

$$=\frac{5}{7}$$

Total number of spectators in the open = x

Then,  $\frac{5}{7} imes x = 15000$ 

$$\Rightarrow x = 15000 \div \frac{5}{7}$$

$$= 15000 \times \frac{7}{5}$$

$$= \frac{15000}{1} \times \frac{7}{5}$$

$$= \frac{15000 \times 7}{1 \times 5}$$

$$= \frac{10500}{5}$$

$$= 21000$$

Hence, the total number of spectators is 21,000

\*\*\*\*\*\*\*\*\* END \*\*\*\*\*\*\*