

Q-4 Solve the following.

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| <p>1) Find $\frac{1}{12}$ of 7200</p> $\frac{1}{12} \times 7200 = 600$ | <p>2) Divide 35 by $\frac{7}{3}$</p> $35 \div \frac{7}{3} = \frac{35}{1} \times \frac{3}{7} = \frac{15}{1} = 15$ | <p>3) $\frac{3}{8} \times \frac{12}{21}$</p> $\frac{3}{8} \times \frac{12}{21} = \frac{3}{2} \times \frac{2}{7} = \frac{3}{7}$ | <p>4) $\frac{2}{5}$ of 365 days</p> $\frac{2}{5} \times 365 = 146$ |
| <p>5) $\frac{2}{3} \div 5$</p> $\frac{2}{3} \div 5 = \frac{2}{3} \times \frac{1}{5} = \frac{2}{15}$ | <p>6) $1\frac{2}{3} \div 7\frac{1}{2}$</p> $1\frac{2}{3} \div 7\frac{1}{2} = \frac{5}{3} \div \frac{15}{2} = \frac{5}{3} \times \frac{2}{15} = \frac{2}{9}$ | <p>7) $\frac{1}{4}$ of $\frac{8}{3}$</p> $\frac{1}{4} \times \frac{8}{3} = \frac{2}{3}$ | <p>8) $\frac{42}{15} \times \frac{3}{7} \times \frac{5}{36}$</p> $\frac{42}{15} \times \frac{3}{7} \times \frac{5}{36} = \frac{1}{6}$ |

Q-5 Story sums.

1) Mrs Aggarwal cut 40 metre rope into pieces, each $2\frac{1}{2}$ m long. How many pieces could she cut?

- Length of a rope = 40 m
- Length of a piece to be cut = $2\frac{1}{2}$ m
- No. of pieces Mrs Aggarwal cut = $40 \div 2\frac{1}{2}$

$$\frac{40}{1} \div \frac{5}{2} = 8 \overline{)40} \times \frac{2}{5} = 16$$

\therefore Mrs Aggarwal could cut 16 pieces.

2) Manasvi had $\frac{5}{9}$ of a sheet of chart paper. She used $\frac{3}{5}$ of it to make some cards. How much chart paper did she use?

Sheet of Chart paper = $\frac{5}{9}$
 Manasvi used $\frac{3}{5}$ of $\frac{5}{9}$

$$\therefore \frac{3}{5} \times \frac{5}{9} = \frac{1}{3}$$

\therefore Manasvi used $\frac{1}{3}$ of the chart paper for making cards.

Roshan drank orange juice from a 500 ml bottle. He found that $\frac{2}{5}$ was remaining. How much did he drink?

Orange juice in a bottle = 500ml

Remaining juice = $\frac{2}{5}$ of 500ml

$$\text{Juice drank} = \frac{2}{5} \times 500 \text{ ml} \\ = 200 \text{ ml}$$

$$\begin{aligned} \text{Juice drank by Roshan} \\ &= 500 \text{ ml} - 200 \text{ ml} \\ &= 300 \text{ ml} \end{aligned}$$

\therefore Roshan drank 300ml of orange juice.

- 4) Shanaya adds $\frac{5}{9}$ l of apple juice to $\frac{1}{2}$ l of orange juice to make fruit punch. How many litres of fruit punch does she have?

Apple juice = $\frac{5}{9}$ l.

Orange juice = $\frac{1}{2}$ l.

Quantity of fruit punch

$$= \frac{5}{9} + \frac{1}{2} \quad (\text{LCM} = 18)$$

$$= \frac{5 \times 2}{9 \times 2} + \frac{1 \times 9}{2 \times 9}$$

$$= \frac{10}{18} + \frac{9}{18}$$

$$= \frac{19}{18} \text{ l.}$$

$$= 1 \frac{1}{18} \text{ l.}$$

\therefore Shanaya has $1 \frac{1}{18}$ l of fruit punch.

- 5) There are 40 students in a class. $\frac{2}{5}$ of the students are girls. How many girls are there in the class?

No. of students in a class = 40.

Girls = $\frac{2}{5}$ of 40.

$$= \frac{2}{5} \times 40 \\ = 16$$

\therefore There are 16 girls in a class.

- 6) Riya spends $\frac{2}{5}$ of her money in buying a necklace. She spends $\frac{4}{9}$ of the remaining money on eating out. What fraction of her money does she spend in eating out?

Riya's money = 1

Money with Riya after buying a necklace

$$= 1 - \frac{2}{5} \quad (\text{LCM} = 5)$$

$$= \frac{1 \times 5}{1 \times 5} - \frac{2}{5}$$

$$= \frac{5}{5} - \frac{2}{5}$$

$$= \frac{3}{5}$$

Fraction of money spent

by Riya = $\frac{4}{9}$ of $\frac{3}{5}$

$$= \frac{4}{9} \times \frac{3}{5}$$

$$= \frac{4}{15}$$

\therefore Riya spent $\frac{4}{15}$ of her money in eating out.