PARAGON CONVENT SCHOOL

SECTOR 24 - B CHANDIGARH

Exercise 2C

Sol.1. Total length of road needed to repaired = 440 m

Road repaired after 3 days = $\frac{3}{4}$ of a total

$$=\frac{3}{4}$$
 $x 440 = 330m$

Road left unrepaired = 440 - 330 = 110 m

Sol2. Total students = 48

Number of students who watch TV = $\frac{1}{4}$ of a total $= \frac{1}{4} \quad x^{\frac{12}{48}} = 12 \text{ students}$

Number of students who don't watch TV = 48 - 12 = 36 students

Sol3. Collection of Pranav's stamp = 320

Raghav's collection of stamp = $3\frac{3}{4}$ of a pranav's stamp = $\frac{15}{4}$ x 320 = 1200 stamps

Sol4. Total fruits with fruit seller = 6 dozens = 6 x 12 = 72

Number of apples = $\frac{1}{3}$ of a total

$$=\frac{1}{3} \times 72 = 24$$

Number of oranges = $\frac{1}{4}$ of a total

$$=\frac{1}{4}$$
 x 72 = 18

Number of bananas = 72 - (24 + 18)

=
$$72 - 42 = 30$$
 bananas = $2\frac{1}{2}$ dozens

Sol 5. Length of green ribbon = 12 m 50cm = $12\frac{1}{2}$ m = $\frac{25}{2}$ m

Length of red ribbon = $\frac{3}{5}$ of a green ribbon

$$=\frac{3}{5} \times \frac{25}{2} = \frac{15}{2} \text{ m}$$

Therefore, Length of yellow ribbon = $2\frac{1}{2}$ times red ribbon

$$=\frac{5}{2} \times \frac{15}{2} = \frac{75}{4} = 18\frac{3}{4} \text{ m}$$

Sol 6. Total people = 1800

Number of men =
$$\frac{7}{18}$$
 of 1800 = $\frac{7}{18}$ x 1809 = 700

Number of women =
$$\frac{11}{24}$$
 of 1800 = $\frac{11}{24}$ x 1800 = 825

Therefore number of children = 1800 - (700 + 825)

$$Fraction = \frac{275}{1800} = \frac{11}{72}$$

$$72$$

$$= 1800 - 1525 = 275$$

$$\frac{11}{72}$$

Sol 7 Let fraction be x

Sum of fraction =
$$\frac{16}{3} + \frac{19}{3} = \frac{35}{3}$$

$$ATQ = x \times \frac{35}{3} = 3$$

$$x = 3 \times \frac{3}{35} = \frac{9}{35}$$

Sol 8 Let the fraction be x

$$x \div \left(\frac{1}{2} - \frac{1}{6}\right) = \frac{2}{3}$$

$$x \div \left(\frac{3-1}{6}\right) = \frac{2}{3}$$

$$x \div \left(\frac{2}{6}\right) = \frac{2}{3}$$

$$x \div \left(\frac{1}{3}\right) = \frac{2}{3}$$

$$x = \frac{2}{3} \times \frac{1}{3}, \quad x = \frac{2}{3}$$

Sol . 9 Let total passengers be x

Children
$$= 40$$

$$\frac{1}{8}$$
 of x = 40

$$X = 40 \times 8$$

$$X = 320$$

Adults =
$$320 - 40 = 280$$

Sol 10. Let the flowers be x

Roses =
$$\frac{13}{30}$$
 x

Orchids =
$$\frac{2}{5}$$
 x

Gladioli = 7

ATQ
$$\frac{13}{30}$$
 x $+\frac{2}{5}$ x + 7 = x

$$\frac{13x + 12 x + 210}{30} = X$$

$$13x + 12x + 210 = 30x$$

$$25 x + 210 = 30 x$$

$$30x - 25 x = 210$$

$$5 x = 210$$

$$x = \frac{210}{5}$$
. $x = 42$ flowers

Sol 11 Let Jimmy's ticket be x

Ankitesh ticket =
$$1\frac{3}{8}x = \frac{11}{8}x$$

Total tickets = 3800

ATQ

$$x + \frac{11}{8}x = 3800$$

$$\frac{8 x + 11x}{8} = 3800$$

$$\frac{19}{8}$$
 x = 3800

$$X = 3800 \times \frac{8}{19}$$

$$X = 1600$$

Jimmy's tickets = 1600

Ankitesh's tickets = 3800 - 1600 = 2200