Sub: MATHS
Assignment-3

Fractions :- A fraction represents a part of a whole or a collection.

Example 1

$$2 - \frac{3}{5} = \frac{2}{1} - \frac{3}{5} = \frac{10-3}{5} = \frac{7}{5} = 1\frac{2}{5}$$

Q1) $4 + \dfrac{7}{8}$

Example 2

$$\frac{3}{5} + \frac{2}{7}$$

LCM of 5 and 7 =35

$$\frac{21+10}{35} = \frac{31}{35}$$

Q2) a) $\dfrac{7}{10} + \dfrac{2}{5} + \dfrac{3}{2}$ b) $8\dfrac{1}{2} - 3\dfrac{5}{8}$

Example 3

(a) $7 \times \dfrac{3}{5} = \dfrac{7}{1} \times \dfrac{3}{5} = \dfrac{21}{5} = 4\dfrac{1}{5}$ b) $\dfrac{1}{2}$ of $10 = \dfrac{1}{2} \times 10 = \dfrac{10}{2} = 5$

Q3) Solve

(a) $4 \times \dfrac{1}{3}$

(b) $15 \times \dfrac{3}{5}$

(c) $3 \times 5\dfrac{1}{5}$

(d) $3\frac{2}{5} \times 8$

(e) $\frac{3}{4}$ of 16

(f) $\frac{1}{2}$ of $2\frac{3}{4}$

Example 4

(a) $\frac{2}{3} \times 2\frac{2}{3} = \frac{2}{3} \times \frac{8}{3} = \frac{16}{9} = 1\frac{7}{9}$

b) $\frac{2}{7}$ of $\frac{3}{4} = \frac{2}{7} \times \frac{3}{4} = \frac{2\times3}{7\times4} = \frac{6}{28}$

(c) $12 \div \frac{3}{4} = 12 \times \frac{4}{3} = 16$

Q4) Find

(a) $\frac{1}{3} \times \frac{15}{8}$

(b) $2\frac{3}{5} \times 3$

(c) $8 \div \frac{7}{3}$

(d) $5 \div 3\frac{4}{7}$

(e) $\frac{3}{7} \div \frac{8}{7}$

(f) $2\frac{1}{5} \div 1\frac{1}{5}$

Q5) A rectangular sheet of paper is $12\frac{1}{2}$ cm long and $10\frac{2}{3}$ cm wide.Find the perimeter. {Hint : P=2(l+b) }

Q6) Saili plants 4 saplings in a row,in her garden.The distance between two adjacent saplings is $\frac{3}{4}$ m.Find the distance between the first and the last sapling.(Hint 🌱 $\frac{3}{4}$ 🌱 $\frac{3}{4}$ 🌱 $\frac{3}{4}$ 🌱)

Q7) A car runs 16 km using 1 litre of petrol.How much distance will it cover using $2\frac{3}{4}$ litres of petrol?

Q8) Salil wants to put a picture in a frame.The picture is $7\frac{3}{5}$ cm wide.To fit in the frame the picture cannot be more than $7\frac{3}{10}$ cm wide.How much should the picture be trimmed?

Q9) Which is greater?   (a)0.5 or 0.05   (b)2.03 or 2.30

Q10) Express as rupees using decimal:

(a)7 paise

(b) 50 paise

(c) 7 rupees 7 paise