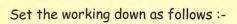
Fractions of a Quantity

To find $\frac{2}{3}$ of a number (like 15), you do it using 2 steps.

Step 1:- Find
$$\frac{1}{3}$$
 of 15 first (÷ 3) => $\frac{1}{3}$ of 15 = 15 ÷ 3 = 5

Step 2:- Now find
$$\frac{2}{3}$$
 of 15 by (x 2) => $\frac{2}{3}$ of 15 = $\frac{5}{2}$ x 2 = $\frac{10}{3}$



$$\frac{3}{5}$$
 of 25 => (25 ÷ 5) => 5 × 3 = 15.

$$\frac{2}{7}$$
 of 35 => (35 ÷ 7) => 5 x 2 = 10.

$$\frac{7}{10}$$
 of 60 => (60 ÷ 10) => 6 × 7 = 42.

Rule :-

To find a fraction, like $\frac{5}{8}$ of something,

- => "divide by the denominator" (8)
- => then "multiply by the numerator" (5)

Be able to find any fraction of

a quantity

Exercise 5

Do the following :-

a
$$\frac{2}{5}$$
 of 30 = (30 ÷ 5) => then 6 × 2 = ...

b
$$\frac{3}{4}$$
 of 24 = (24 ÷ ...) => then ... × 3 = ...

c
$$\frac{5}{6}$$
 of 18 d $\frac{4}{5}$ of 20

$$\frac{4}{5}$$
 of 20

$$\frac{2}{3}$$
 of 66

$$\frac{4}{9}$$
 of 63

 $\frac{7}{10}$ of 100

$$\frac{3}{11}$$
 of 44

$$\frac{2}{5}$$
 of 35

$$\frac{2}{7}$$
 of 21

$$\frac{3}{4}$$
 of 400

$$p = \frac{3}{10} \text{ of } 1000$$

$$r = \frac{4}{7} \text{ of } 35$$

$$\frac{7}{10}$$
 of 60

$$\frac{5}{8}$$
 of 32

 $\times \frac{7}{100}$ of 300

$$\frac{7}{10}$$
 of 80

$$\frac{2}{15}$$
 of 30

$$\frac{5}{9}$$
 of 63

 $\frac{3}{8}$ of 40

h $\frac{2}{9}$ of 27

 $\frac{9}{10}$ of 80

 $\frac{7}{8}$ of 56

$$v = \frac{3}{16}$$
 of 32

$$\frac{9}{10}$$
 of 200

$$\frac{9}{20}$$
 of 60.

Do the following :-

a
$$\frac{2}{17}$$
 of 1700 grams

b
$$\frac{2}{15}$$
 of £15000

c
$$\frac{9}{11}$$
 of €330

d
$$\frac{18}{19}$$
 of 19 kg

$$\frac{7}{20}$$
 of 60 ml

$$f = \frac{3}{19}$$
 of 38 kg

$$\frac{3}{50}$$
 of \$100

h
$$\frac{4}{15}$$
 of 150 metres i $\frac{8}{12}$ of 6 litres.

$$\frac{8}{12}$$
 of 6 litres