

## Fractions of a Quantity (basic)

To find  $\frac{1}{4}$  of something, you **divide** by 4.

To find  $\frac{1}{6}$  **divide** by 6

To find  $\frac{1}{10}$  **divide** by 10.

Be able to find a basic fraction of a number

Examples :-

Find: a  $\frac{1}{4}$  of 20

$$\begin{array}{r} \text{a} \\ 20 \div 4 \\ = 5 \end{array}$$

b  $\frac{1}{6}$  of 18

$$\begin{array}{r} \text{b} \\ 18 \div 6 \\ = 3 \end{array}$$

c  $\frac{1}{10}$  of 80

$$\begin{array}{r} \text{c} \\ 80 \div 10 \\ = 8 \end{array}$$

### Exercise 4

1. Find :-

a  $\frac{1}{3}$  of 15

b  $\frac{1}{2}$  of 40

c  $\frac{1}{4}$  of 24

d  $\frac{1}{5}$  of 30

e  $\frac{1}{3}$  of 21

f  $\frac{1}{5}$  of 60

g  $\frac{1}{4}$  of 60

h  $\frac{1}{3}$  of 48

i  $\frac{1}{4}$  of 100

j  $\frac{1}{3}$  of 120

k  $\frac{1}{5}$  of 300

l  $\frac{1}{2}$  of 150.

2. Find :-

a  $\frac{1}{7}$  of 21

b  $\frac{1}{8}$  of 48

c  $\frac{1}{9}$  of 72

d  $\frac{1}{8}$  of 72

e  $\frac{1}{6}$  of 84

f  $\frac{1}{10}$  of 340

g  $\frac{1}{8}$  of 400

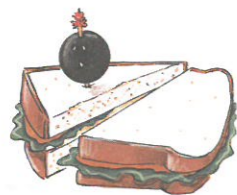
h  $\frac{1}{9}$  of 810

i  $\frac{1}{7}$  of 140.

3. a There are 36 desks in a classroom.  $\frac{1}{4}$  of them are in need of repair. How many desks need repaired?



b



A cafe served 42 packs of sandwiches one lunchtime.  $\frac{1}{3}$  of the packs were lettuce and tomato. How many lettuce and tomato sandwiches were sold?

3. c Last week, Citroault produced 60 new cars.  $\frac{1}{5}$  of the cars were exported to France. How many cars went to France?



d

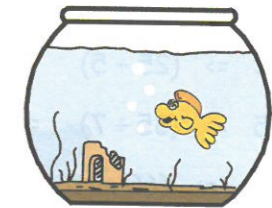


There are 48 jelly beans in a jar.  $\frac{1}{6}$  of them are red. How many red jelly beans are there?

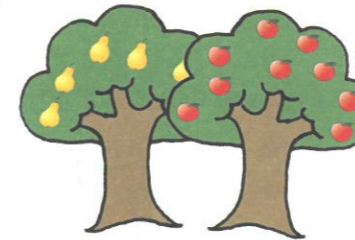
e

A tank in a pet shop held 40 tropical fish.  $\frac{1}{8}$  of them were goldfish.

- (i) How many goldfish were there in the tank?  
(ii) How many of fish were **not** goldfish?



f

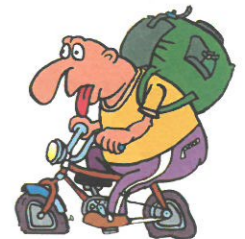


$\frac{1}{10}$  of the trees in an orchard were pear trees and  $\frac{1}{5}$  of them were apple.

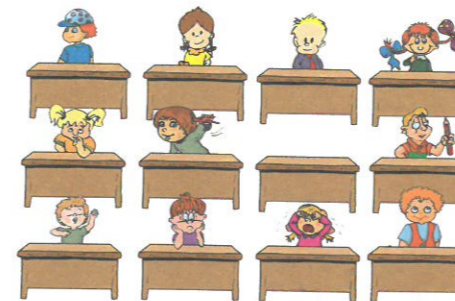
If there were 60 trees altogether in the orchard,

- (i) how many pear trees were there  
(ii) how many apples trees?

4. Jerry was on a 60 kilometre cycling trip for charity. He got a puncture **one third** of the way into the trip.
- a How far had Jerry cycled before the puncture?  
b How many kilometres had he still to go?



5.



There are 36 children in Primary 5.

- a **third** of them have dark brown hair.
- a **quarter** of them have light brown hair.
- a **sixth** of them have black hair.
- a **ninth** of them are blondes.

The rest have red hair.

How many of the class have hair that is :-

- a dark brown                      b light brown                      c black  
d blonde                              e red                                  f brown?

6. I'm thinking of a number. I can find a  $\frac{1}{2}$  of it with no remainder. I can find a  $\frac{1}{3}$  of it with no remainder. I can find a  $\frac{1}{5}$  of it with no remainder. I can find a  $\frac{1}{6}$  of it with no remainder. When I try to find a  $\frac{1}{7}$  of the number I'm left with a remainder of 4. Can you find the number I am thinking of? (It is smaller than 100!).

