

Fractions of a Quantity (basic)

Be able to find a basic fraction of a number

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.

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



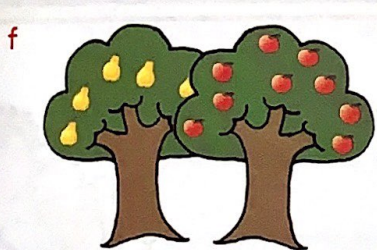
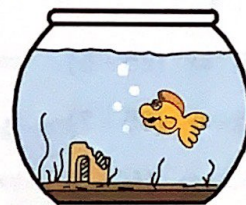
A cafe served 42 packs of sandwiches one lunchtime. $\frac{1}{3}$ of the packs were lettuce and tomato. How many lettuce and tomato sandwiches were sold ?

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



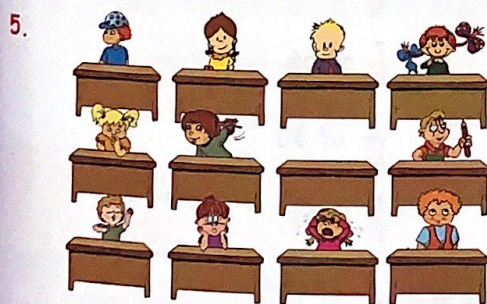
- d There are 48 jelly beans in a jar.
 $\frac{1}{6}$ of them are red.
 How many red jelly beans are there?

- 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?



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!).

