Calculate a fraction of a quantity



1 Here are 12 counters.

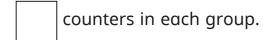


a) Draw to share the counters equally into 3 groups.

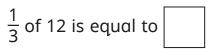


b) Complete the sentences.

When 12 counters are shared equally into 3 groups, there are



12 shared equally between 3 is equal to



2 Kim shares 15 sweets equally between 5 bags.

a) How many sweets are there in each bag?

Complete the sentences.

There are sweets in each bag.

 $\frac{1}{5}$ of 15 is equal to

b) Kim gives Ron 2 of the bags.

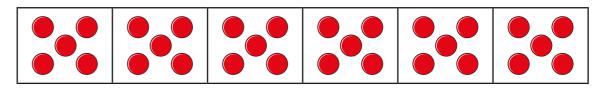
How many sweets does Ron have?

Complete the sentences.

Ron gets sweets.

 $\frac{2}{5}$ of 15 is equal to

The bar model shows how 30 counters have been shared into 6 equal groups.



Use the bar model to complete the calculations.

a)
$$\frac{1}{6}$$
 of 30 =

d)
$$\frac{4}{6}$$
 of 30 =

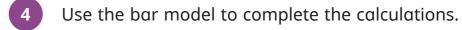
b)
$$\frac{2}{6}$$
 of 30 =

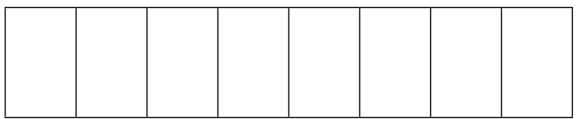
e)
$$\frac{5}{6}$$
 of 30 =

c)
$$\frac{3}{6}$$
 of 30 =

f)
$$\frac{6}{6}$$
 of 30 =

What do you notice?





a)
$$\frac{1}{8}$$
 of 32 =

e)
$$\frac{5}{8}$$
 of 32 =

b)
$$\frac{2}{8}$$
 of 32 =

f)
$$\frac{6}{8}$$
 of 32 =

c)
$$\frac{3}{8}$$
 of 32 =

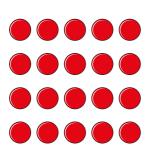
g)
$$\frac{7}{8}$$
 of 32 =

d)
$$\frac{4}{8}$$
 of 32 =

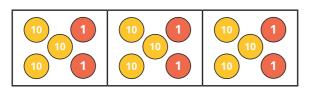
h)
$$\frac{8}{8}$$
 of 32 =

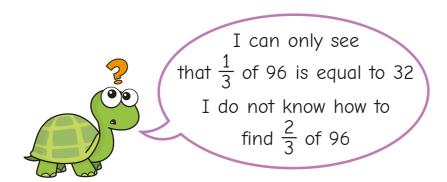


Here is an array of 20 counters.



- a) Draw on the array to show that $\frac{1}{4}$ of 20 = 5
- **b)** Use the array to find $\frac{3}{4}$ of 20
- c) Use the array to find $\frac{1}{5}$ of 20
- **d)** Use the array to find $\frac{4}{5}$ of 20
- Tiny is using place value counters to find $\frac{2}{3}$ of 96

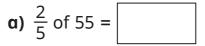




- a) Explain how Tiny can work out $\frac{2}{3}$ of 96
- **b)** What is $\frac{2}{3}$ of 96?



7 Use place value counters and bar models to work out the fractions of amounts.



d)
$$\frac{3}{8}$$
 of 24 =

b)
$$\frac{3}{4}$$
 of 84 =

e)
$$\frac{4}{7}$$
 of 35 =

c)
$$\frac{2}{3}$$
 of 396 =

f)
$$\frac{7}{10}$$
 of 40 =

Which calculations did you find easier?



I am going to share 72 into 24 equal groups.



a) Explain what Max could do first to make the calculation easier.

b) What is $\frac{4}{24}$ of 72?



