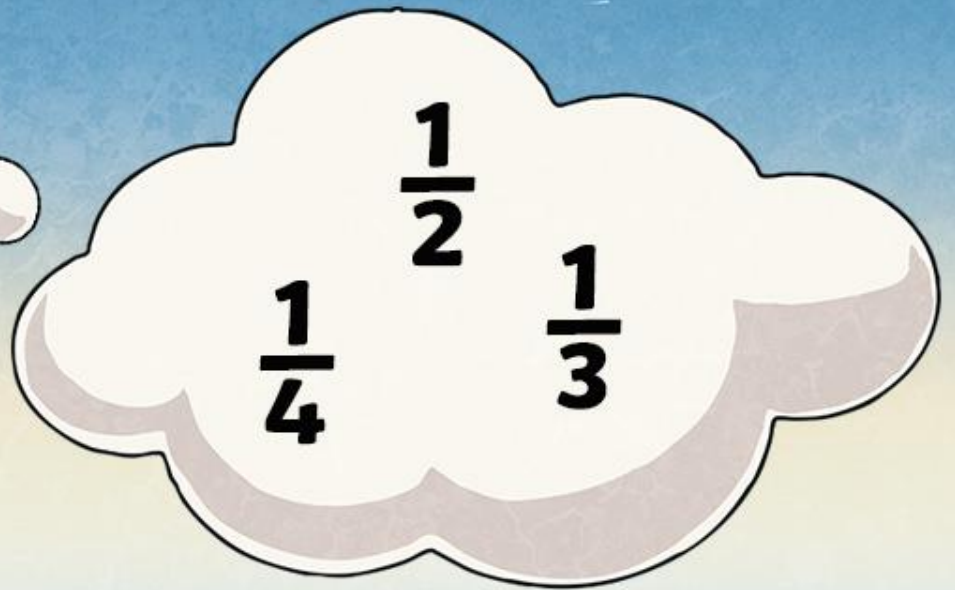




Introducing Fractions of Numbers




Contents

Finding half 

Finding quarter 

Finding one third 

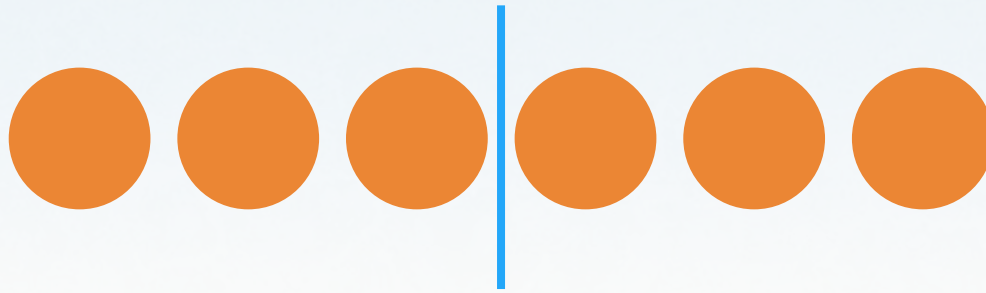
Finding three quarters 

Finding two thirds 



Finding Half ($\frac{1}{2}$)

To find half of a number, you need to divide the number by two.



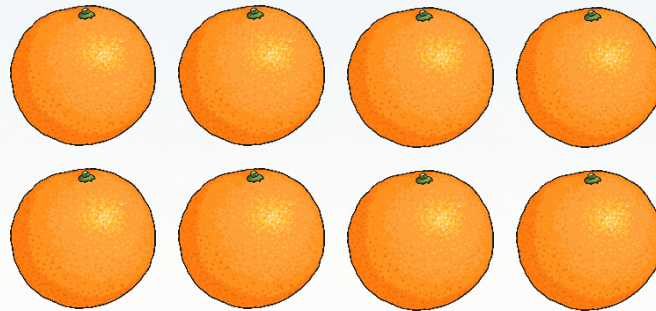
$$6 \div 2 = 3 \quad \text{so} \quad \frac{1}{2} \text{ of } 6 = 3$$

Finding Half ($\frac{1}{2}$)

Can you find $\frac{1}{2}$?

$$\frac{1}{2} \text{ of } 8 = 4$$

$$8 \div 2 = 4$$



So half of 8 is 4

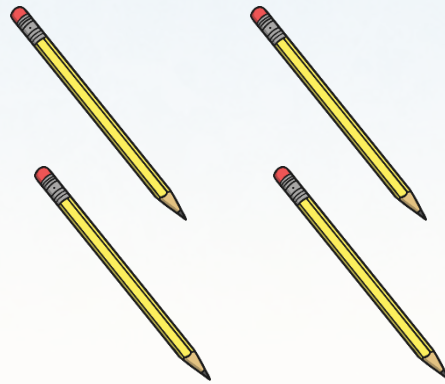


Finding Half ($\frac{1}{2}$)

Amina has 4 pencils, she wants to put half of them in her pencil case. How many pencils will she put in her pencil case?

$$\frac{1}{2} \text{ of } 4 = 2$$

$$4 \div 2 = 2$$



So half of 4 is 2

She will put 2 pencils in her pencil case.

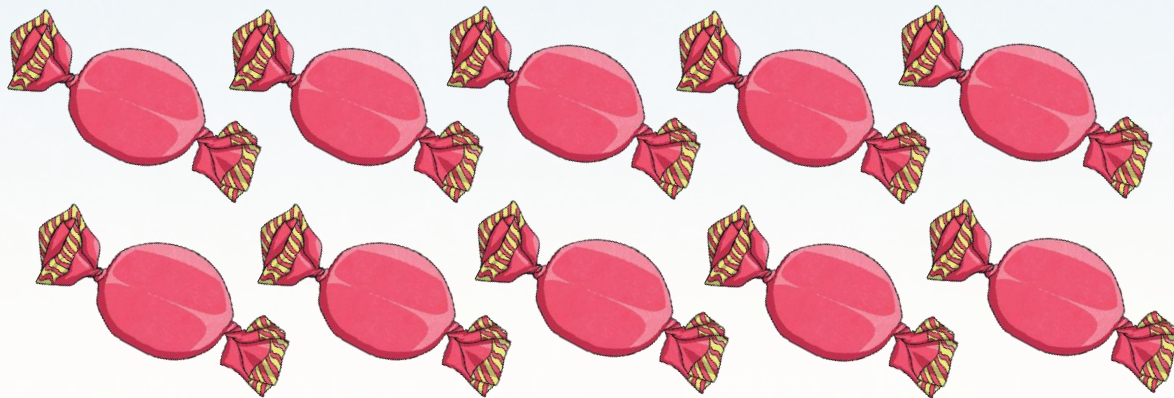


Finding Half ($\frac{1}{2}$)

Liam has ten sweets, he gives half to his sister. How many sweets will they each get?

$$\frac{1}{2} \text{ of } 10 = 5$$

$$10 \div 2 = 5$$



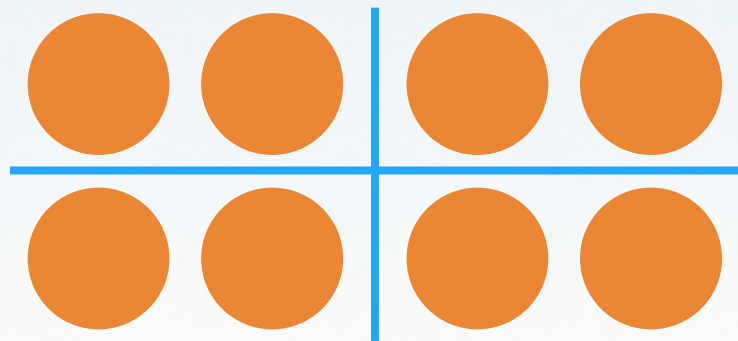
So half of 10 is 5

They will get 5 sweets each.



Finding a Quarter ($\frac{1}{4}$)

To find a quarter of a number, you need to divide the number by four.



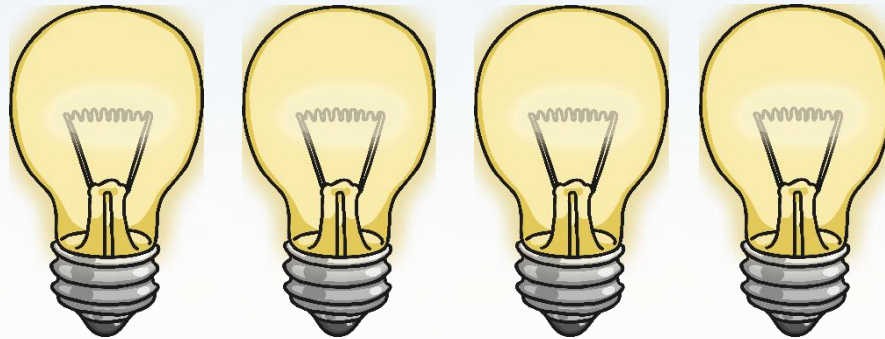
$$8 \div 4 = 2 \quad \text{so} \quad \frac{1}{4} \text{ of } 8 = 2$$

Finding a Quarter ($\frac{1}{4}$)

Can you find $\frac{1}{4}$?

$$\frac{1}{4} \text{ of } 4 = 1$$

$$4 \div 4 = 1$$



So a quarter of 4 is 1

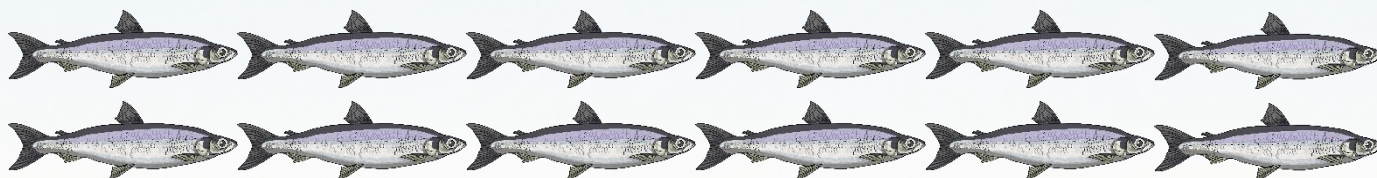


Finding a Quarter ($\frac{1}{4}$)

A cat has 12 fish. It shares them between her four kittens. How many fish will each kitten get.

$$\frac{1}{4} \text{ of } 12 = 3$$

$$12 \div 4 = 3$$



So a quarter of 12 is 3

They will get 3 fish each.



Finding One Third ($\frac{1}{3}$)

We divide by 2 to find half ($\frac{1}{2}$),
and 4 to find one quarter ($\frac{1}{4}$).

What do you think we need to divide by to find one third? Have a look at the one third fraction...



$$\frac{1}{3}$$

You need to divide by 3
to find one third.



Finding One Third ($\frac{1}{3}$)

To find one third of a number, you need to divide the number by three.



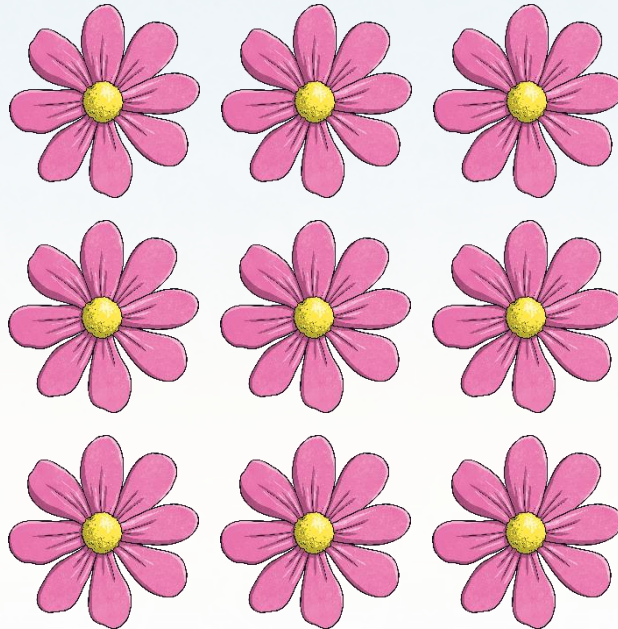
$$6 \div 3 = 2 \quad \text{so} \quad \frac{1}{3} \text{ of } 6 = 2$$

Finding One Third ($\frac{1}{3}$)

Can you find $\frac{1}{3}$?

$$\frac{1}{3} \text{ of } 9 = 3$$

$$9 \div 3 = 3$$



So one third of 9 is 3

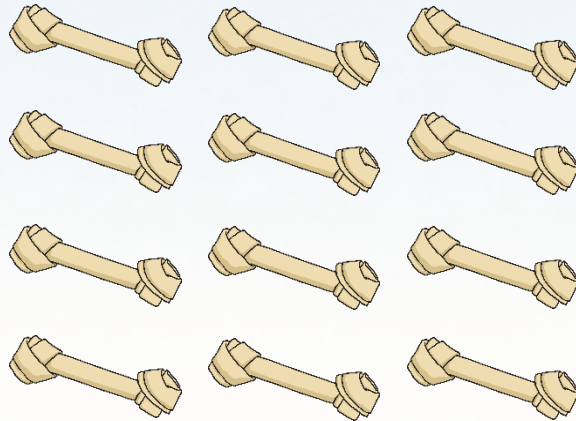


Finding One Third ($\frac{1}{3}$)

There are 12 dog biscuits in a packet. Daniel shares them between his three dogs. How many biscuits will each dog get?

$$\frac{1}{3} \text{ of } 12 = 4$$

$$12 \div 3 = 4$$



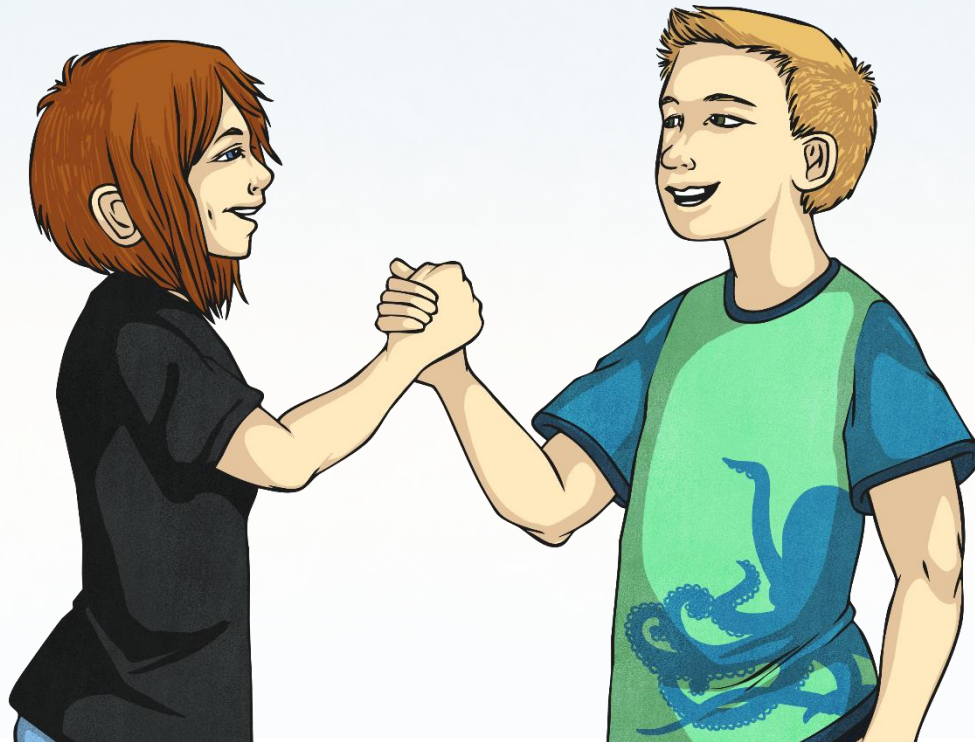
So one third of 12 is 4

They will get 4 biscuits each.



Challenge Section

If you have found it easy to find one half, one quarter and one third, try these next few challenges!



Finding Three Quarters ($\frac{3}{4}$)

You know how to find one quarter, so now let's look at finding three quarters.

First find one quarter.

There are 8 eggs. If we divide these eggs between 4 baskets, how many eggs will be in each basket?

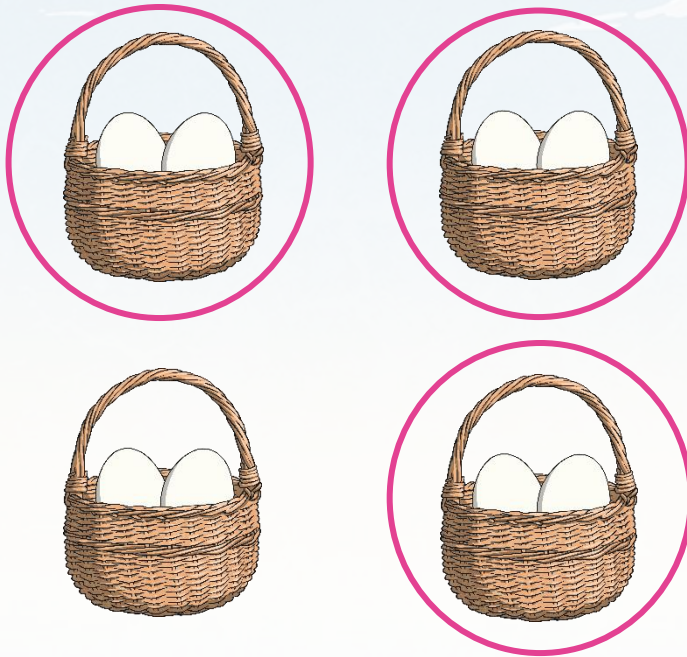
$$8 \div 4 = 2$$

$$\frac{1}{4} \text{ of } 8 = 2$$

Finding Three Quarters ($\frac{3}{4}$)

There will be 2 eggs in each basket.

To find **three** quarters, we want to find out how many eggs there are in **three** baskets, so we can do this:



Three baskets = 3×2 eggs

$$3 \times 2 = 6$$

There are 6 eggs in the 3 baskets.

So three quarters of 8 is 6. $\frac{3}{4}$ of 8 = 6

Finding Two Thirds ($\frac{2}{3}$)

You know how to find one third, so now let's look at finding two thirds.

First find one third.

There are 6 paintbrushes. If we divide these brushes between 3 jars, how many brushes will be in each jar?

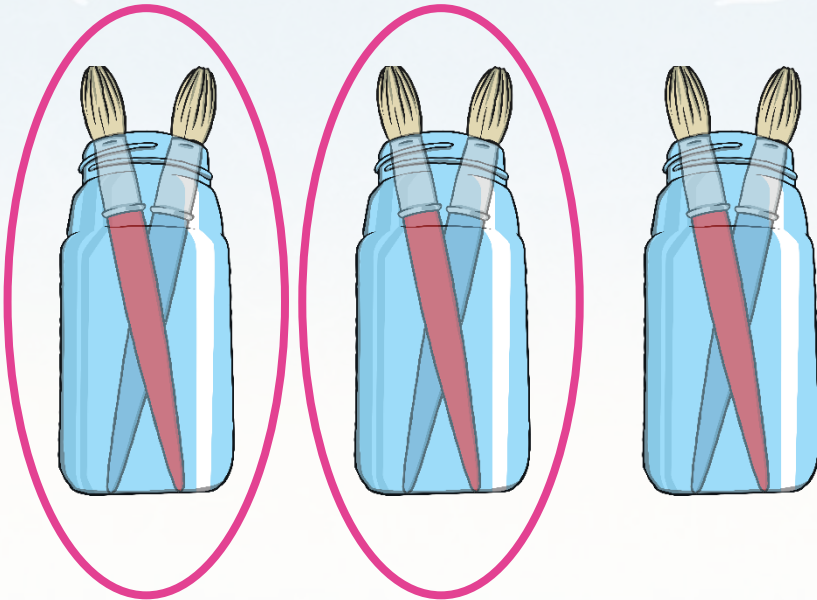
$$6 \div 3 = 2$$

$$\frac{1}{3} \text{ of } 6 = 2$$

Finding Two Thirds ($\frac{2}{3}$)

There will be 2 brushes in each jar.

To find **two** thirds, we want to find out how many brushes there are in **two** jars, so we can do this:



Two jars = 2×2 brushes

$$2 \times 2 = 4$$

There are 4 brushes in the 2 jars.

So two thirds of 6 is 4. $\frac{2}{3}$ of 6 = 4

Red

Yellow

Green

Complete your extension from the tray.

Copy and complete the following calculations.

Grab a partner and complete the challenge.

$$\frac{1}{10} \text{ of } 60 = 60 \div 10 = \underline{\quad}$$

$$\frac{1}{8} \text{ of } 40 = 40 \div \underline{\quad} = \underline{\quad}$$

$$\frac{1}{5} \text{ of } 45 = \underline{\quad} \div \underline{\quad} = \underline{\quad}$$

$$\frac{1}{9} \text{ of } 36 = \underline{\quad} \div \underline{\quad} = \underline{\quad}$$

$$\frac{1}{8} \text{ of } 56 = \underline{\quad} \div \underline{\quad} = \underline{\quad}$$

$$\frac{1}{6} \text{ of } 36 = 36 \div \underline{\quad} = \underline{\quad}$$

$$\frac{1}{7} \text{ of } 42 = \underline{\quad} \div \underline{\quad} = \underline{\quad}$$

$$\frac{1}{4} \text{ of } 32 = \underline{\quad} \div \underline{\quad} = \underline{\quad}$$

$$\frac{1}{7} \text{ of } 70 = \underline{\quad} \div \underline{\quad} = \underline{\quad}$$