



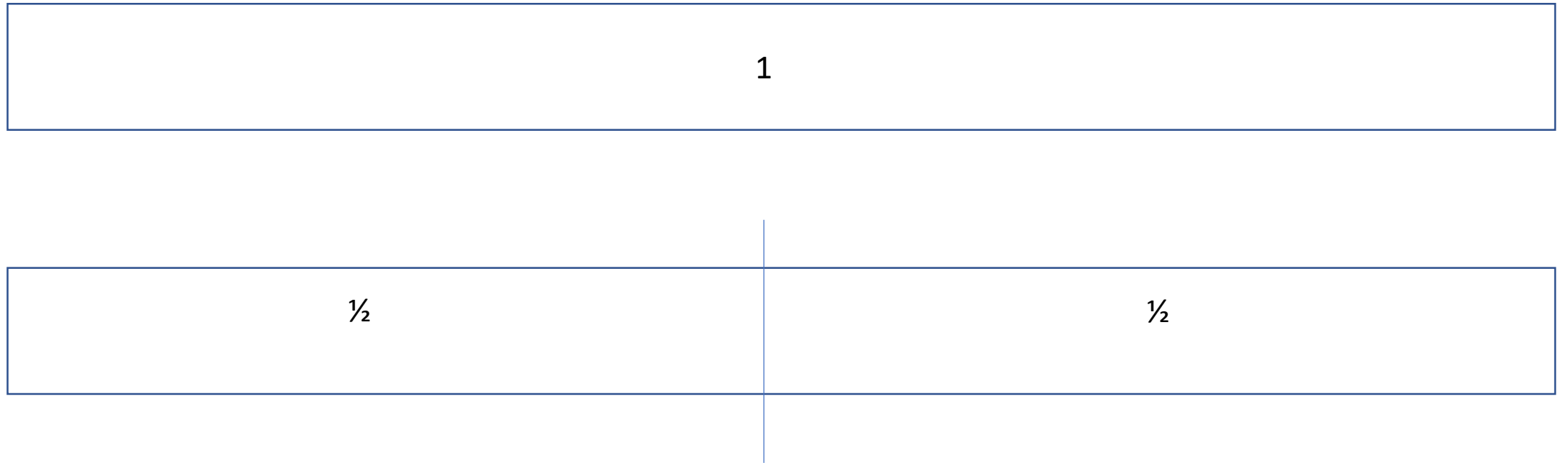


## Lesson 3- Fractions

**What do you need?**

Pen and Paper

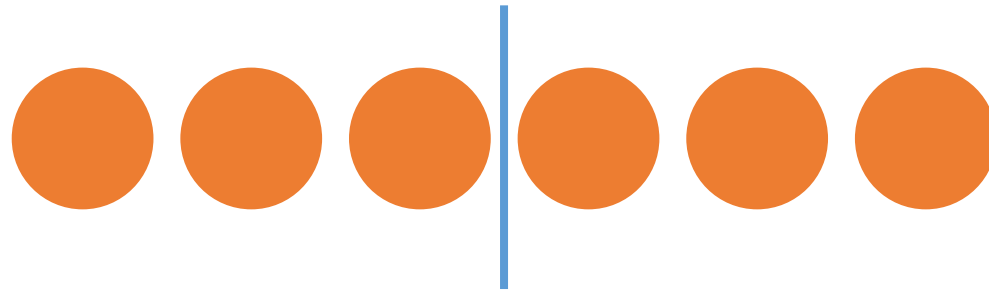
<p>Blue Zone</p>  <p>Going slow</p>	<p>Green Zone</p>  <p>Good to go</p>	<p>Yellow Zone</p>  <p>Caution Starting to lose control</p>	<p>Red Zone</p>  <p>Stop! Out of control</p>
<p>E.g. sad, sick, tired, bored</p>	<p>E.g. happy, calm, focused, ok</p>	<p>E.g. worried, excited, annoyed</p>	<p>E.g. angry, terrified, elated</p>



To find  $\frac{1}{2}$  , we must divide by 2.  
We have split our original into two.

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

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



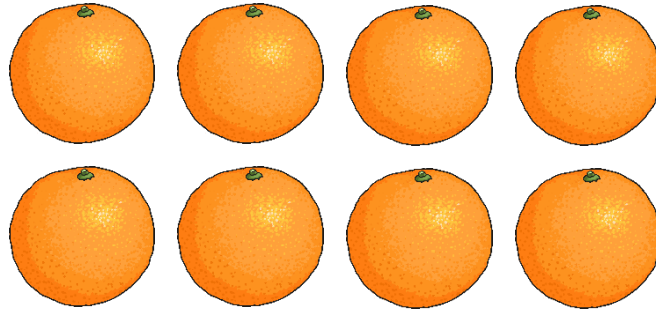
$$6 \div 2 = 3 \quad \text{so} \quad \frac{1}{2} \text{ of } 6 = 3$$

# 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

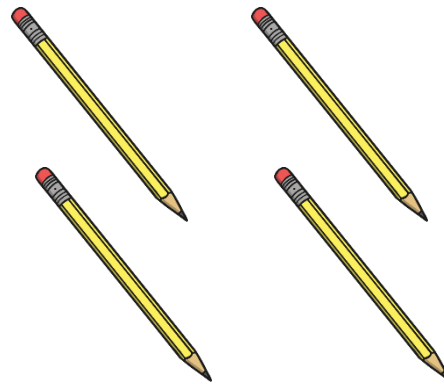


# Finding Half ( $\frac{1}{2}$ )

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.

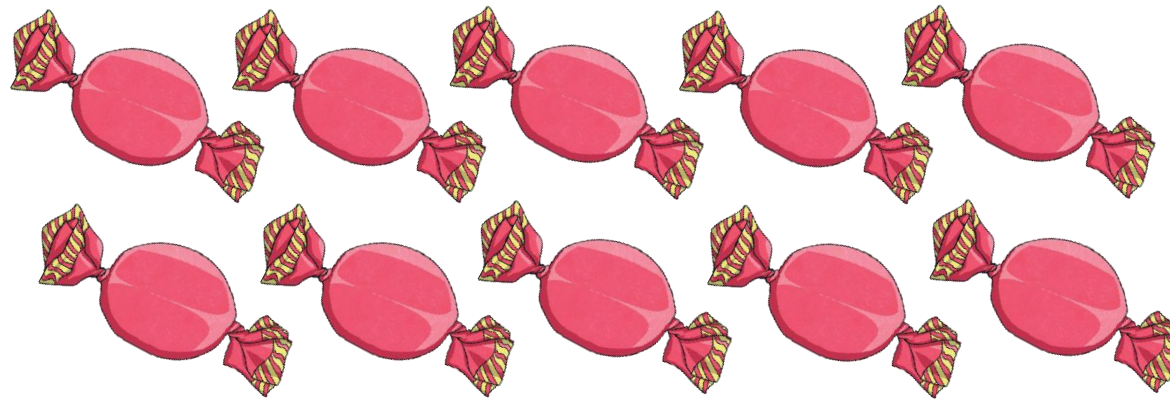


# Finding Half ( $\frac{1}{2}$ )

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

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

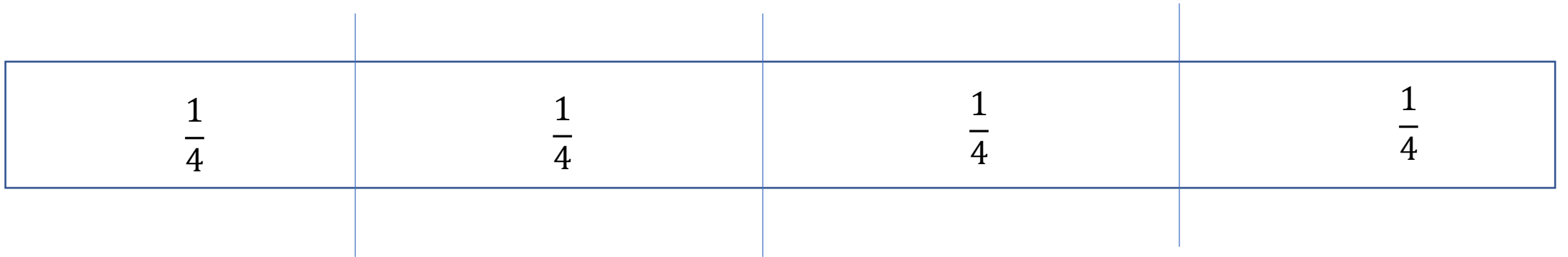
$$10 \div 2 = 5$$



So half of 10 is 5

They will get 5 sweets each.





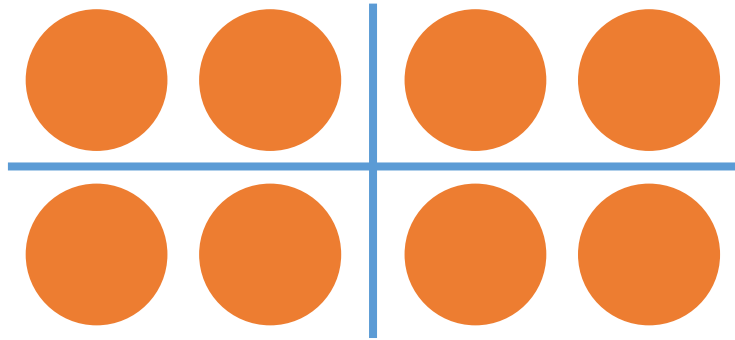
To find  $\frac{1}{4}$ , we must divide by 4.

We have split our original into 4 equal parts.



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

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



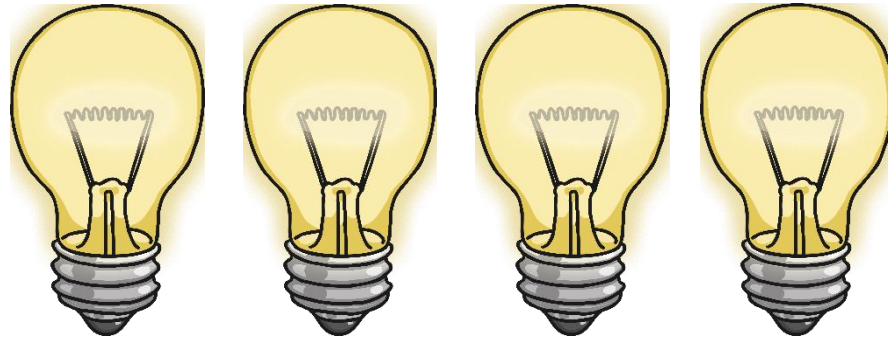
$$8 \div 4 = 2 \quad \text{so} \quad \frac{1}{4} \text{ of } 8 = 2$$

# 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

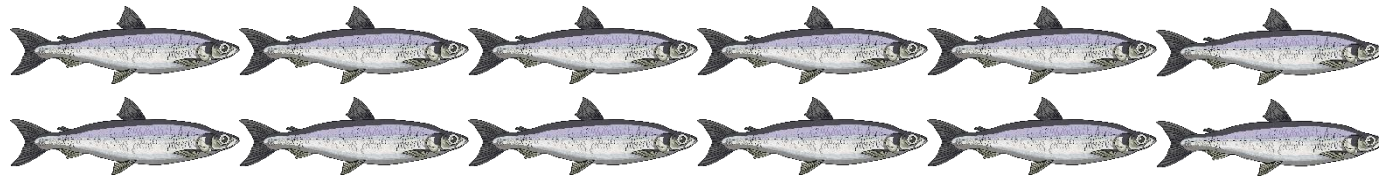


# Finding a Quarter ( $\frac{1}{4}$ )

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

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

$$12 \div 4 = 3$$



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 ( $\frac{1}{4}$ ).

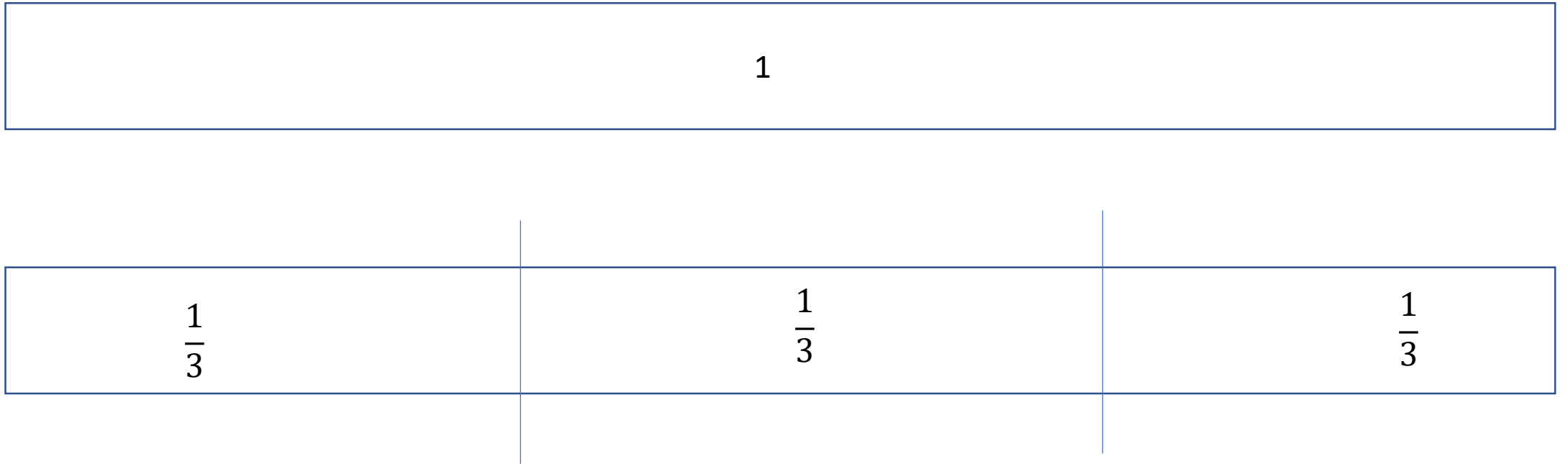
What do you think we need to divide by to find one third?  
Have a look at the one third fraction...



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

You need to divide by 3  
to find one third.



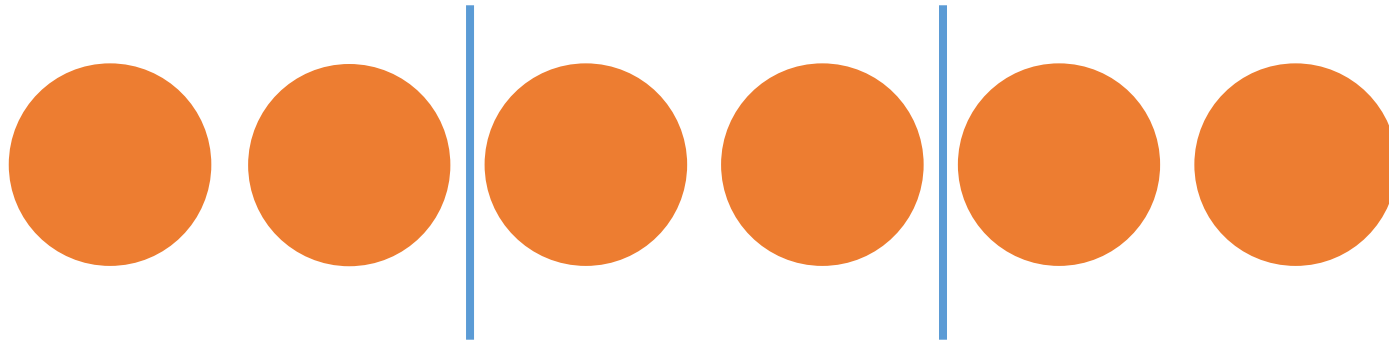


To find  $\frac{1}{3}$ , we must divide by 3.

We have split our original into 3 equal parts.

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

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



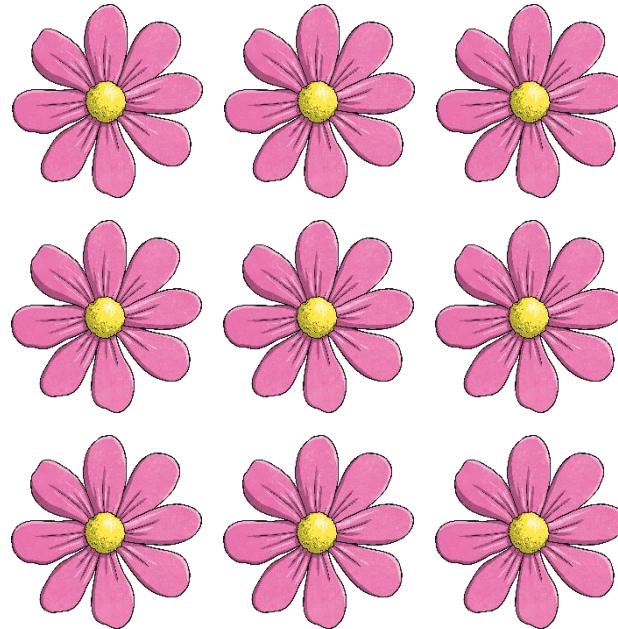
$$6 \div 3 = 2 \quad \text{so} \quad \frac{1}{3} \text{ of } 6 = 2$$

# 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

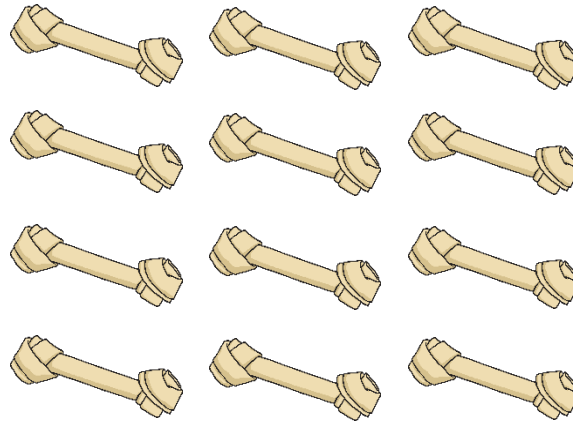


# Finding One Third ( $\frac{1}{3}$ )

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 time!

What do you think we would divide by to find  $\frac{1}{5}$  ?

What do you think we would divide by to find  $\frac{1}{8}$  ?

What do you think we would divide by to find  $\frac{1}{10}$  ?

What's the pattern?

# Your turn!

Calculate the following fractions of amounts;

1)  $\frac{1}{3}$  of 15 =

5)  $\frac{1}{6}$  of 18 =

9)  $\frac{1}{5}$  of 25 =

2)  $\frac{1}{5}$  of 20 =

6)  $\frac{1}{2}$  of 40 =

10)  $\frac{1}{3}$  of 21 =

3)  $\frac{1}{10}$  of 30 =

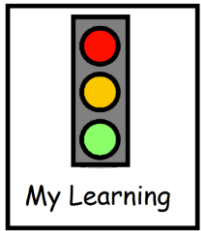
7)  $\frac{1}{9}$  of 18 =

11)  $\frac{1}{4}$  of 32 =

4)  $\frac{1}{4}$  of 24 =

8)  $\frac{1}{3}$  of 27 =

12)  $\frac{1}{2}$  of 100 =



Traffic light your work today.

Thumbs down- I don't understand it

Thumbs across- I understand some of it

Thumbs up- I understand all of it