Year 2 Maths Home Learning | Summer Term

Week Commencing 8th June

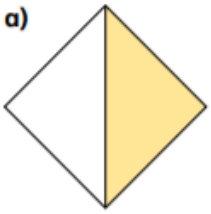
Answer Sheet

Monday

Mild

Complete the sentences for each shape.

a)



There are 2 equal parts.

There is 1 part shaded.

$\frac{1}{2}$ is shaded.

b)

There are 3 equal parts.

There is 1 part shaded.

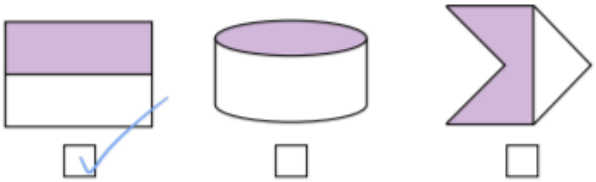
$\frac{1}{3}$ is shaded.

2 There are 4 equal parts.

There is 1 part circled.

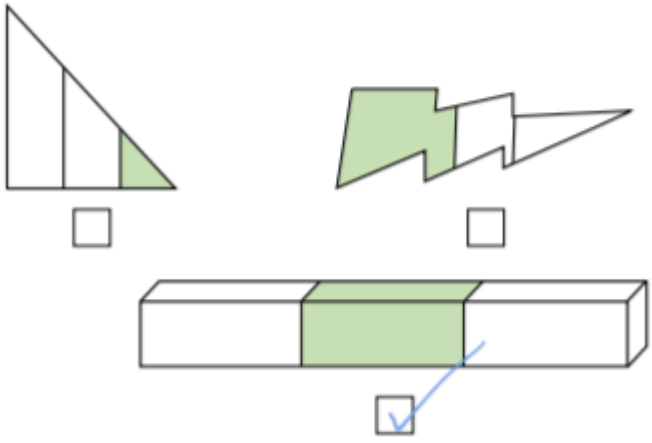
$\frac{1}{4}$ is circled.

3 Tick the shape that has $\frac{1}{2}$ shaded.

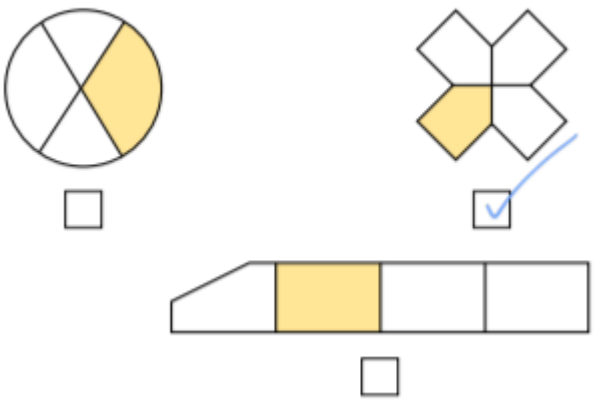


Medium

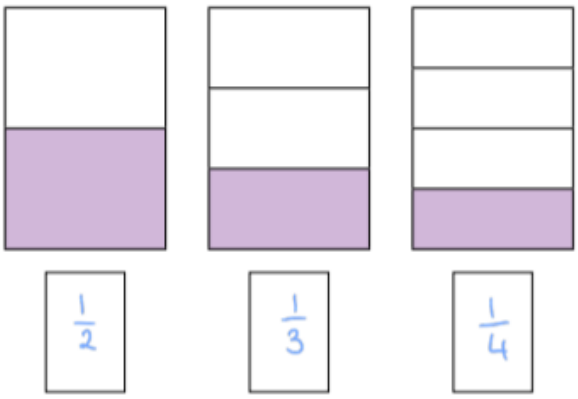
Tick the shape that has $\frac{1}{3}$ shaded.



Tick the shapes that have $\frac{1}{4}$ shaded.



What fraction of each shape is shaded?



Same – 1 equal part is shaded each time.

Different – each shape has different equal parts.

1 part of each shape needs to be shaded

Two balls are circled.

Five apples are circled.

Two birds are circled.

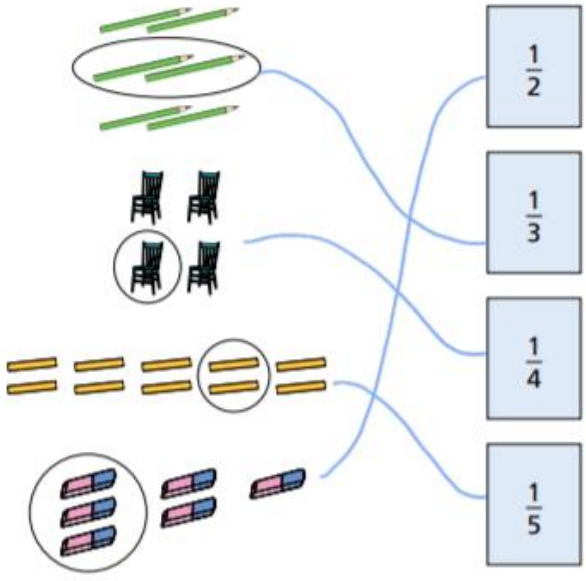
Spicy

Left to right: $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$

Here are some fractions.

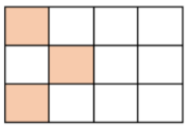
Tick all the unit fractions.

Match the objects to the unit fractions.

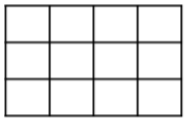


True or False?

This shows $\frac{1}{4}$



Can you shade the same shape so that it shows $\frac{1}{3}$?



True.
There are 12 squares altogether and 3 are shaded.
One quarter of 12 is 3

Any 4 squares shaded.

If half of the number of counters is 12, this means that there are 24 counters in total, because 2 lots of 12 make 24.

$\frac{1}{3}$ of 24 = 8

$\frac{1}{4}$ of 24 = 6

Tuesday

Mild

Complete the sentences.

a) 

There are 3 equal parts.

There are 2 parts shaded.

$\frac{2}{3}$ is shaded.

b) 

There are 4 equal parts.

There are 3 parts shaded.

$\frac{3}{4}$ is shaded.

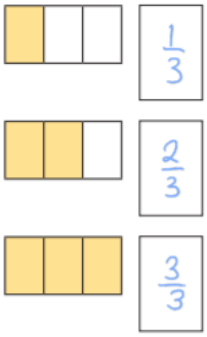
c) 

There are 3 equal parts.

There are 3 parts shaded.

$\frac{3}{3}$ is shaded.

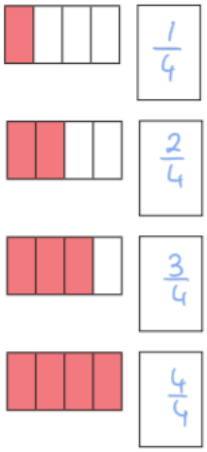
What fraction of each shape is shaded?

a) 

$\frac{1}{3}$

$\frac{2}{3}$

$\frac{3}{3}$

b) 

$\frac{1}{4}$

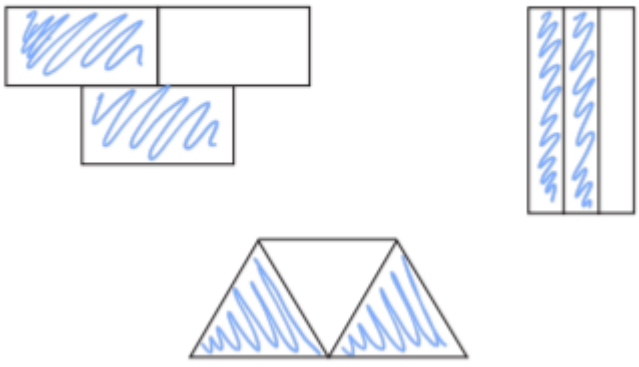
$\frac{2}{4}$

$\frac{3}{4}$

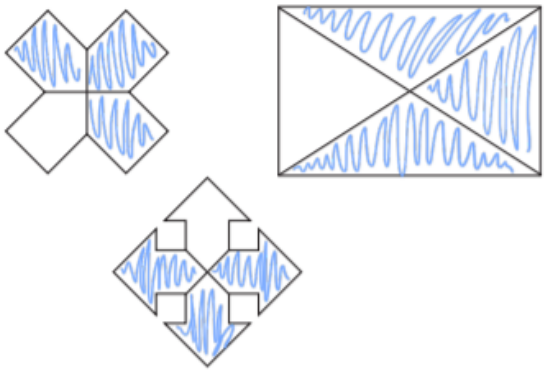
$\frac{4}{4}$

Medium

Colour $\frac{2}{3}$ of each shape.



Colour $\frac{3}{4}$ of each shape.



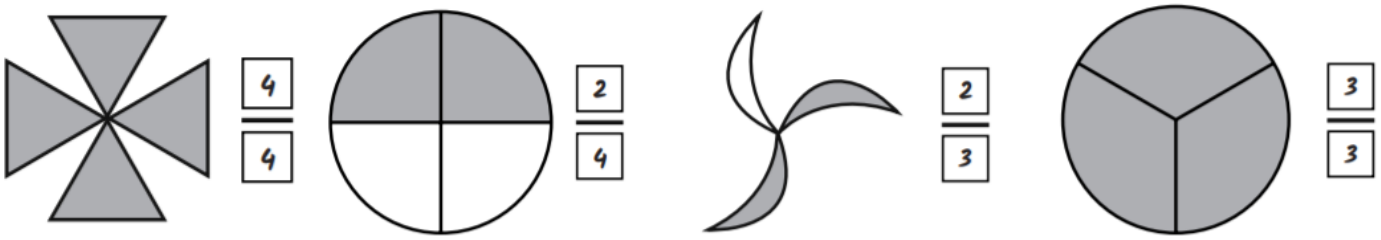
A shape has 3 equal parts.

a) What fraction is shaded if there are 2 parts shaded?

$\frac{2}{3}$ is shaded.

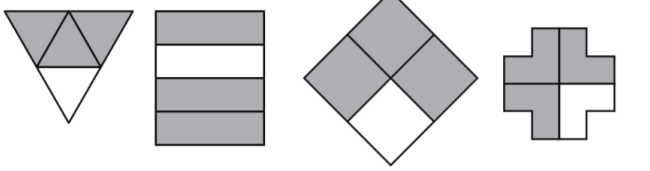
b) What fraction is shaded if there are 3 parts shaded?

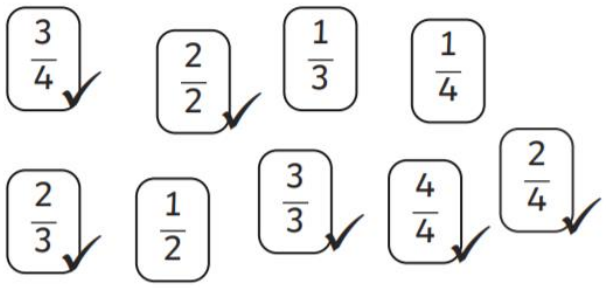
$\frac{3}{3}$ is shaded.



Spicy

These shaded shapes correctly represent $\frac{3}{4}$.





Fill in the boxes to give a unit fraction and a non-unit fraction.

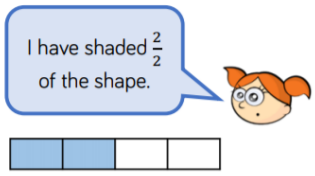
unit fraction $\frac{1}{5}$ **non-unit fraction** $\frac{2}{5}$

Write the fractions in the table.

$\frac{1}{3}$ $\frac{3}{4}$ $\frac{1}{2}$ $\frac{1}{4}$ $\frac{2}{3}$

Unit fractions	Non-unit fractions
$\frac{1}{3}$ $\frac{1}{2}$ $\frac{1}{4}$	$\frac{3}{4}$ $\frac{2}{3}$

Alex says,



What mistake might Alex have made?

She has shaded two quarters of the shape. She may have thought that the numerator represents the number of parts that are shaded and the denominator represents the number of parts that aren't. She doesn't realise the denominator represents the whole.

Wednesday

Mild

Here are 6 counters.

a) Share the counters into 2 equal groups.

Group 1	Group 2
	

b) Complete the sentences.

There are 6 counters.

The counters are shared equally between 2 groups.

There are 3 counters in each group.

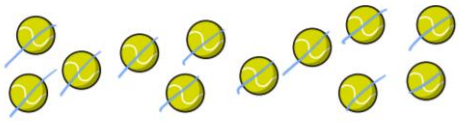
$\frac{1}{2}$ of 6 is equal to 3

Use counters.

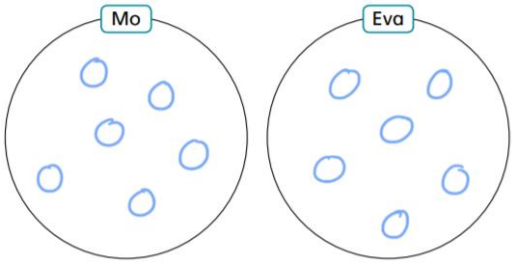
a) Can you share 10 counters into 2 equal groups? Yes

b) Can you share 11 counters into 2 equal groups? No

3 Mo and Eva have 12 tennis balls.



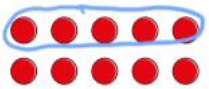
Share the tennis balls equally between Mo and Eva.



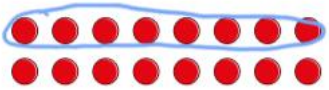
Medium

Find $\frac{1}{2}$ of each number.

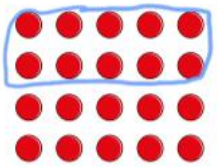
Use the arrays to help you.

a) 

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

b) 

$\frac{1}{2}$ of 16 = 8

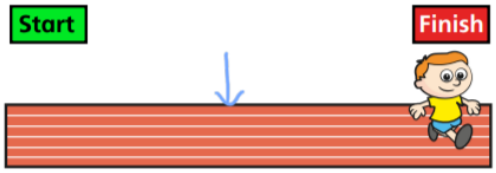
c) 

$\frac{1}{2}$ of 20 = 10

6 footballs should be circled.
The whole is 12. Half of 12 is 6.

5 stars should be circled.
The whole is 10. Half of 10 is 5.

Ron has run 20 m.



Rosie has run half that distance.

a) Draw an arrow on the running track to show where Rosie is.

a) How far has Rosie run? 10 m

$\frac{1}{2}$ of 2 = 1
$\frac{1}{2}$ of 4 = 2
$\frac{1}{2}$ of 6 = 3

$\frac{1}{2}$ of 20 = 10
$\frac{1}{2}$ of 40 = 20
$\frac{1}{2}$ of 60 = 30

Spicy

Here are half of Annie's sweets.

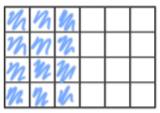
How many sweets does Annie have in total?

12

Colour $\frac{1}{2}$ of each shape.

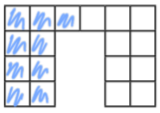
Use the shapes to help you complete the number sentences.

a)



$\frac{1}{2}$ of 24 = 12

b)



$\frac{1}{2}$ of 18 = 9

Emily started with 18 crayons. Explanations may focus on adding another equal group/doubling the starting number.

Children may choose to represent this as:

9 + 9 = 18

2 × 9 = 18

18 ÷ 2 = 9

Possible answers are 26, 28, 30, 32, 34, 36 and 38.

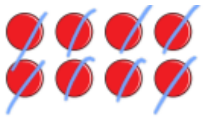
Complete the number sentences.

$\frac{1}{2}$ of 20 = 10 $\frac{1}{2}$ of 14 = 7

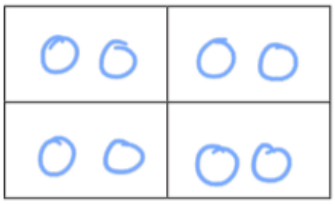
Thursday

Mild

Here are 8 counters.



a) Share the counters equally into 4 groups.



b) Complete the sentences.

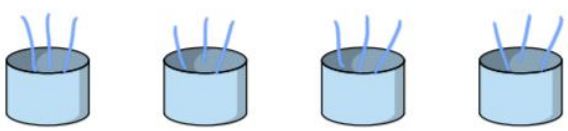
8 counters are shared equally between 4 groups.

There are 2 counters in each group.

c) What is $\frac{1}{4}$ of 8? 2

There are 12 pencils.

a) Share them equally between 4 pencil pots.



b) What is $\frac{1}{4}$ of 12? 3

The apples are split into **4** equal parts.

There are **2** apples in each part.

$\frac{1}{4}$ of 8 is **2**

Medium

Four bananas circled.

$\frac{1}{4}$ of 4 is 1.

$\frac{1}{4}$ of 12 is 3.

$\frac{1}{4}$ of 20 is 5.

$\frac{1}{4}$ of 16 is 4.

$\frac{1}{4}$ of 8 is 2.

$\frac{1}{4}$ of 24 is 6.

$\frac{1}{4}$ of 20 is 5.

Alex has 20 pencils in total.

The number Alex is thinking of is 16.

Use the bar models to help you work out a quarter.

a) Work out $\frac{1}{4}$ of 20

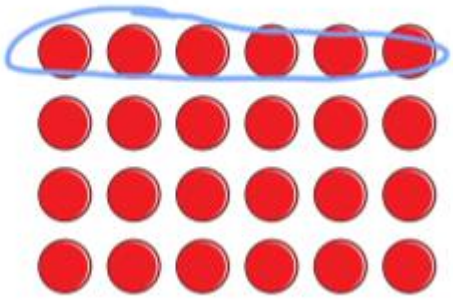
$\frac{1}{4}$ of 20 = 5

b) Work out $\frac{1}{4}$ of 16

$\frac{1}{4}$ of 16 = 4

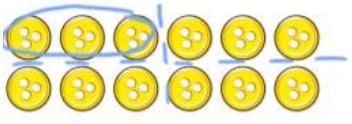
Spicy

Show that $\frac{1}{4}$ of 24 is 6



I can find a quarter by halving a number and halving again.

Use this method to find $\frac{1}{4}$ of 12



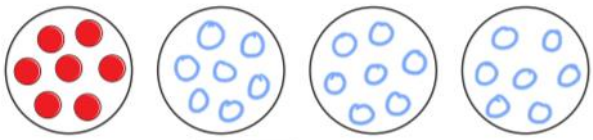
$\frac{1}{4}$ of 12 = 3

Complete the table.

Number	$\frac{1}{2}$ of Number	$\frac{1}{4}$ of Number
8	4	2
20	10	5
24	12	6

$\frac{1}{4}$ of a number is 7

What is the number?



The number is 28

$\frac{1}{2}$ of 20 is 10 so there are 10 bananas.

$\frac{1}{4}$ of 20 is 5 so there are 5 pears.

There are 5 fruits left, which must be satsumas, so $\frac{1}{4}$ of the fruits are satsumas.

Friday

Maths in Football

16 - 8 = 8

18 - 11 = 7

3. 26 Twinkl Rovers fans are travelling to the team's next match on a coach from Sheffield. 20 more fans get on at Manchester.
   - How many fans are now on the coach? **46**
   - If the coach has 52 seats, how many seats are empty? **6**

8. Twinkl United play 24 matches. They win half of them. How many matches do they win? **12**
   - They lose $\frac{1}{4}$ of their matches. How many matches do they lose? **6**
   - The rest of the matches, they drew. How many matches did they draw? **6**

9. Footballs are bought in bags of 5.
   - How many balls are in 2 bags? **10 balls**
   - How many balls are in 6 bags? **30 balls**
   - How many bags should I buy if I need 40 footballs? **8 bags**