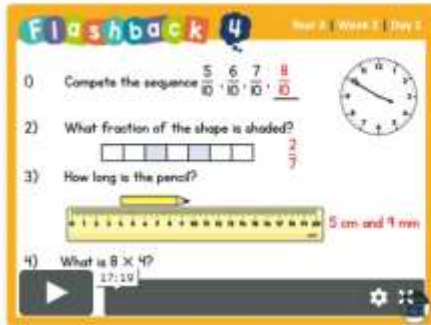


Summer term week 3 w/b 4th May 2020

<https://whiterosemaths.com/homelearning/year-3/>

Click on week 2; lesson

Lesson 1 - Fractions on a number line



Flashback 4 Year 3, Week 3, Day 4

1) Complete the sequence $\frac{5}{10}$, $\frac{6}{10}$, $\frac{7}{10}$, $\frac{8}{10}$

2) What fraction of the shape is shaded?

3) How long is the pencil?

4) What is 8×4 ?

Get the Activity

Lesson 1 - Y3 Spring Block 5 W06 Fractions on a number line 2019

Get the Answers

Y3 Spring Block 5 AN56 Fractions on a number line 2019

Lesson 2 - Fractions of a set of objects (1)



Fractions of a set of objects (1)

Tommy eats $\frac{1}{4}$ of the gummy bears. How many gummy bears does Tommy eat?

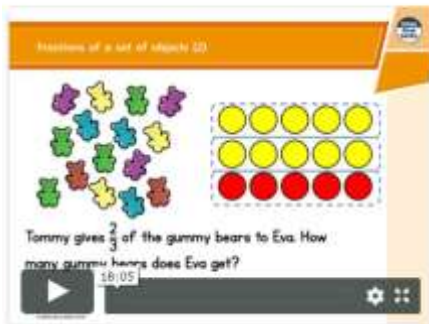
Get the Activity

Lesson 2 - Y3 Spring Block 5 W07 Fractions of a set of objects (1) 2019

Get the Answers

Y3 Spring Block 5 AN57 Fractions of a set of objects (1) 2019

Lesson 3 - Fractions of a set of objects (2)



Fractions of a set of objects (2)

Tommy gives $\frac{3}{4}$ of the gummy bears to Eva. How many gummy bears does Eva get?

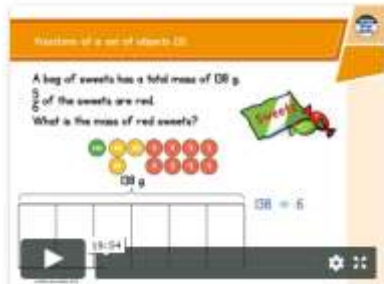
Get the Activity

Lesson 3 - Y3 Spring Block 5 W08 Fractions of a set of objects (2) 2019

Get the Answers

Y3 Spring Block 5 AN58 Fractions of a set of objects (2) 2019

Lesson 4 - Fractions of a set of objects (3)



Fractions of a set of objects (3)

A bag of sweets has a total mass of 36 g.

$\frac{2}{3}$ of the sweets are red.

What is the mass of red sweets?

Get the Activity

Lesson 4 - Y3 Spring Block 5 W09 Fractions of a set of objects (3) 2019

Get the Answers

Y3 Spring Block 5 AN59 Fractions of a set of objects (3) 2019

#

Lesson 1 activity: fractions on a number line

1 Draw an arrow to show the fractions on the number lines.

a) $\frac{1}{2}$



b) $\frac{1}{3}$



c) $\frac{1}{4}$



Are your answers accurate or are they estimates?

2 Write $<$, $>$ or $=$ to compare the fractions.

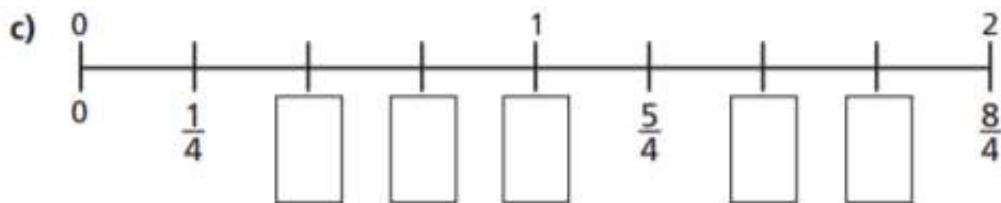
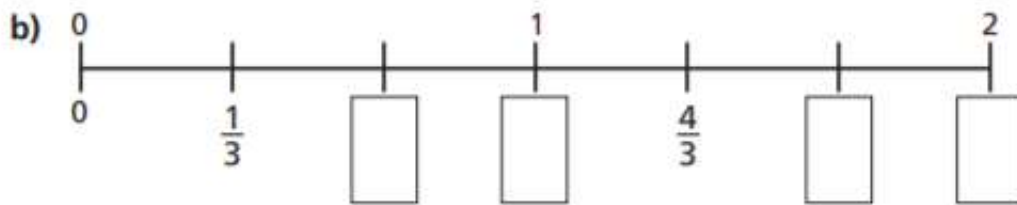
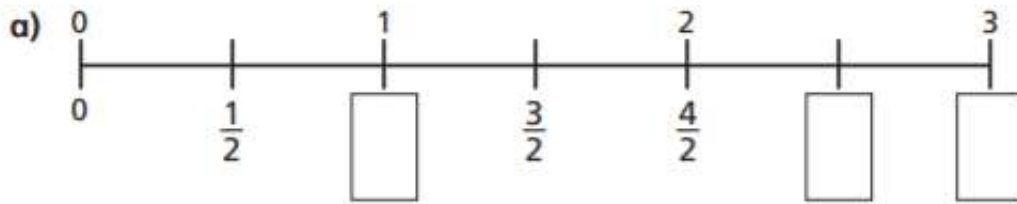
a) $\frac{1}{2}$ $\frac{1}{4}$

b) $\frac{1}{4}$ $\frac{1}{3}$

c) $\frac{1}{3}$ $\frac{1}{2}$

3

Write the missing fractions on the number lines.



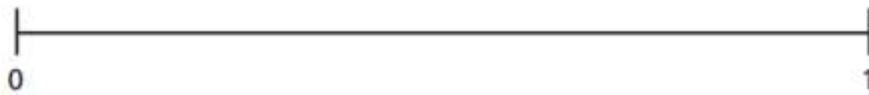
d) Write three fractions that are equivalent to one whole.

Use the number lines to help you.

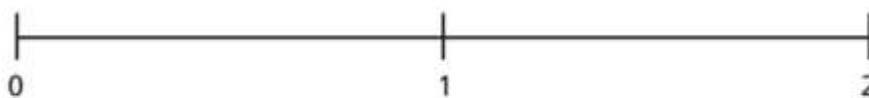
What do you notice?

4 Draw an arrow to estimate where each fraction belongs on the number line.

a) $\frac{3}{4}$



b) 1 and $\frac{2}{3}$



5 Write each fraction under the correct heading.

$\frac{2}{3}$

$\frac{4}{4}$

$\frac{5}{3}$

$\frac{1}{8}$

$\frac{3}{3}$

$\frac{3}{4}$

$\frac{7}{4}$

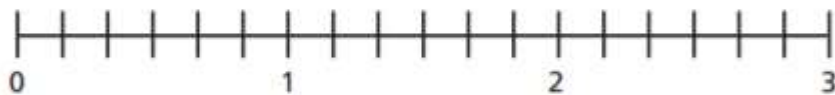
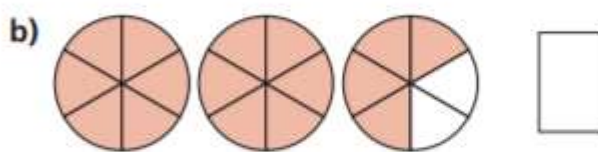
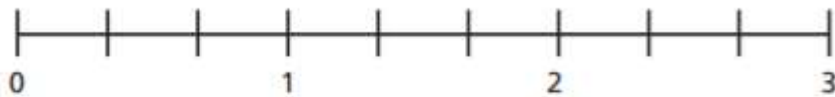
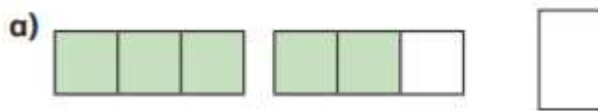
$\frac{8}{8}$

$\frac{7}{8}$

Less than one whole	Equal to one whole	More than one whole

6 What fraction is shown in each diagram?

Draw an arrow to show the fraction on the number line.



7



One eighth is greater than one quarter.

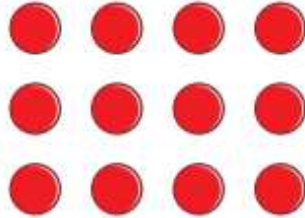
Do you agree with Teddy? _____

Use the number line to show why.



Lesson 2 activity: fractions of a set of objects

1 Here are some counters.

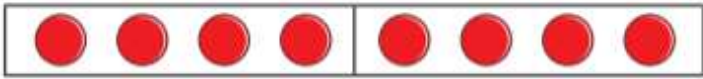


a) Circle $\frac{1}{4}$ of the counters.

b) How many counters did you circle?

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

2 Draw counters in the bar models to help you complete each number sentence. The first one has been done for you.

a) $\frac{1}{2}$ of 8 = 

b) $\frac{1}{2}$ of 16 = 

c) $\frac{1}{4}$ of 8 = 

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

3



To find a half I need
to divide by 2

Do you agree with Dexter? _____

Talk about it with a partner.

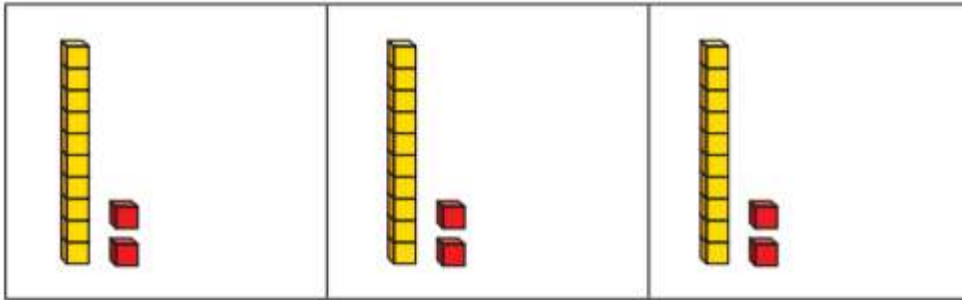
4

Complete the table.

Fraction	Division	Example	Drawing
one half	divide by 2	$\frac{1}{2}$ of 6 = 3	
one quarter		$\frac{1}{4}$ of 8 = 2	

5

Huan uses a bar model and base 10 to find $\frac{1}{3}$ of 36



Use Huan's method to complete the calculations.

a) $\frac{1}{3}$ of 63 =

c) $\frac{1}{4}$ of 92 =

b) $\frac{1}{4}$ of 48 =

6

Nijah uses a bar model and place value counters to find $\frac{1}{3}$ of 36



Use Nijah's method to complete the calculations.

a) $\frac{1}{3}$ of 96 =

c) $\frac{1}{4}$ of 52 =

b) $\frac{1}{5}$ of 60 =

7

Which amount is greater? Tick your answer.

$\frac{1}{3}$ of £75 or $\frac{1}{5}$ of £75


Show your workings.

Lesson 3 activity: fractions of a set of objects

- 1 Draw counters in the bar models to help you complete each number sentence.

a) $\frac{2}{3}$ of 15 = 

b) $\frac{3}{4}$ of 8 = 

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

- 2 Match the questions and answers.

$\frac{2}{3}$ of 9 = ?

9

$\frac{3}{5}$ of 15 = ?

6

$\frac{5}{6}$ of 12 = ?

15

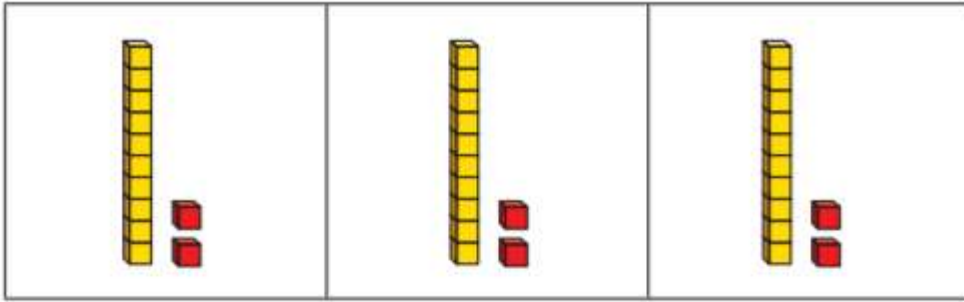
$\frac{3}{4}$ of 20 = ?

10

- 3 What is $\frac{6}{6}$ of 18?

How do you know?

- 4 Brett uses a bar model and base 10 to find $\frac{2}{3}$ of 36



Use Brett's method to complete the number sentences.

a) $\frac{2}{3}$ of 63 =

b) $\frac{3}{4}$ of 48 =

c) $\frac{3}{4}$ of 92 =

- 5 Kim uses a bar model and place value counters to find $\frac{2}{3}$ of 36



Use Kim's method to complete the number sentences.

a) $\frac{2}{3}$ of 96 =

b) $\frac{3}{5}$ of 60 =

c) $\frac{3}{4}$ of 52 =

6 Complete the number sentences.

a) $\frac{2}{3}$ of = 30

b) $\frac{3}{4}$ of = 30

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

7



Tommy

To find $\frac{3}{4}$ of 12,
you divide by 4 and then
multiply the answer by 3

To find $\frac{3}{4}$ of 12,
you divide by 3 and then
multiply the answer by 4



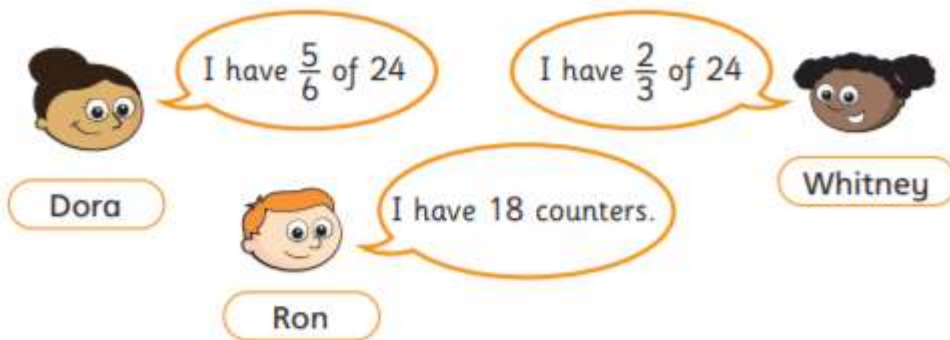
Dexter

Who is correct? _____

How do you know? Show your working.

8

Dora, Whitney and Ron each find a fraction of 24 using counters.



a) Who has the most counters? Show your workings.

b) How many more counters does Dora have than Whitney?

9

Write fractions to make the statements correct.

of 36 < 18

of 36 = 18

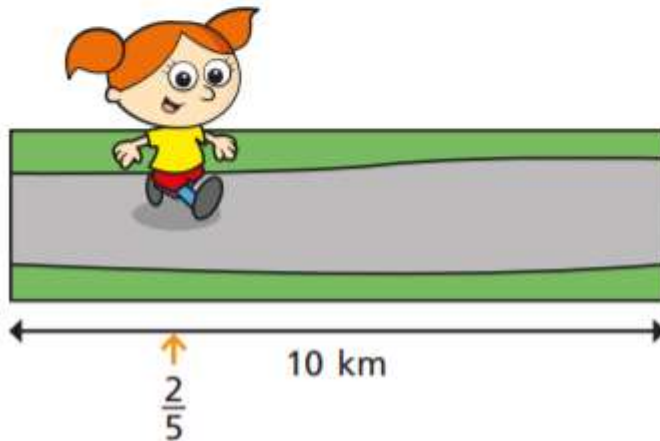
of 36 > 18

How many different answers can you find for each?

Lesson 4 activity: fractions of a set of objects

- 1 In a class of 32 children, three eighths are girls.
How many children are boys?

- 2 Alex is taking part in a 10 km race.



She has run two fifths of the race.

What distance does she have left to run?

 km

- 3 Filip has £3 and 20p.

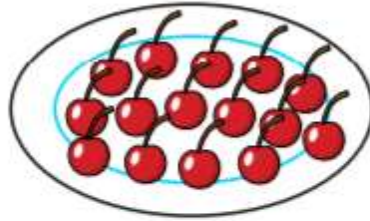


He spends half of his money.

How much does he have left?

£ and p

- 4 Teddy opens a bag of cherries and puts $\frac{1}{2}$ on a plate.



How many cherries were there in the whole bag?

- 5 Ron has £4 and 50p.

He decides to share the money equally between himself and his two sisters.



How much money will each child get?

£ and p

- 6 A bag of potatoes weighs 500 g.

Annie's dad uses one quarter of the potatoes to make a shepherd's pie.



What is the mass of the potatoes left in the bag?

g

7 Dexter spends one third of his money.

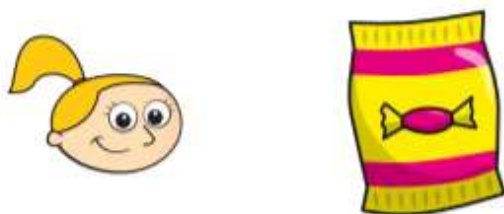
He has these coins left.



How much did Dexter spend?

£ and p

8 Eva has a bag of 20 sweets.



She eats $\frac{1}{4}$ of the sweets.

She gives $\frac{1}{5}$ of the sweets that are left to Dora and 2 sweets to her mum.

How many sweets does Eva have left?

9 Whitney has a box of raisins.

She eats $\frac{1}{4}$ of the raisins and gives 3 to her brother.

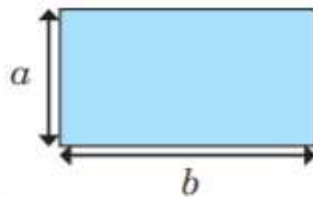
She has 9 raisins left.

How many raisins were in the box at the start?

10

Here is a rectangle.

The perimeter of the rectangle is less than 30 cm.



Side a is one half of the length of side b .

a) Complete the table to show the different possible integer lengths of side a and side b .

Length of side a	Length of side b	Perimeter
1 cm	2 cm	6 cm

b) What are the longest possible integer lengths of side a and b ?

side a _____

side b _____

c)



I think a can be 5 cm.

Talk to a partner about why Dexter is wrong.

