

Class 3 Home Learning, week beginning 4th May 2020

## Maths - Year 3

### Week 2, Lesson 4

### Fractions of a set of objects (3)

Please watch the video before choosing your challenge.

Why not have a go at the reasoning  
and problem solving too?

Can I find a fraction of an amount?

### Challenge 1

These pages do not need to be printed out. Please write the short date you do the work and the above question in your maths book, underlining them with a ruler. Remember to write the question number too!

Questions 1-5 in the answers are questions 1-5 in this challenge.

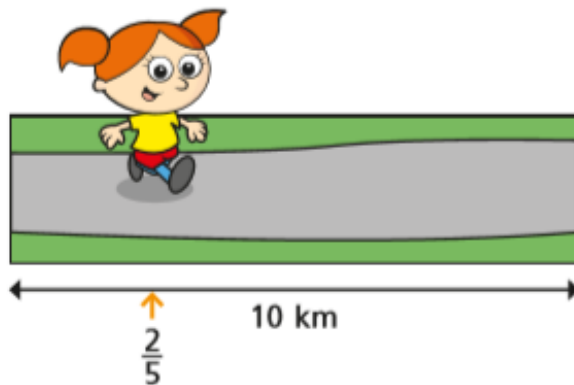
1) Show how you worked this out.

In a class of 32 children, three eighths are girls.

How many children are boys?

2) Show how you worked this out.

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) Show how you worked this out.

Filip has £3 and 20p.



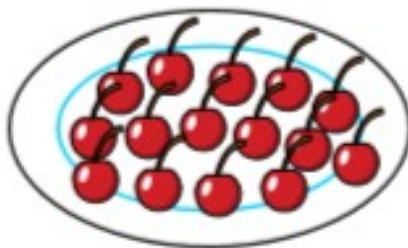
He spends half of his money.

How much does he have left?

£  and  p

4) Show how you worked this out.

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



How many cherries were there in the whole bag?

5) Show how you worked this out.

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

Can I find a fraction of an amount?

Challenge 2

These pages do not need to be printed out. Please write the short date you do the work and the above question in your maths book, underlining them with a ruler. Remember to write the question number too!

Questions 6-10 in the answers are questions 1-5 in this challenge.

1) Show how you worked this out.

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

2) Show how you worked this out.

Dexter spends one third of his money.

He has these coins left.



How much did Dexter spend?

£  and  p

3) Show how you worked this out.

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?

4) Show how you worked this out.

- 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.

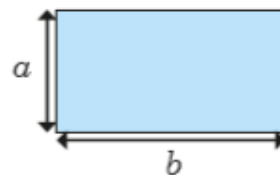
How many raisins were in the box at the start?

5) Copy and complete the table in your maths book. Show how you worked out the answers.

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.

Can I find a fraction of an amount?

**Reasoning and problem solving**

These pages do not need to be printed out. Please write the short date you do the work and the above question in your maths book, underlining them with a ruler. Remember to write the question number too!

1) Show and explain how you worked this out.

Mo makes 3 rugby shirts.



Each rugby shirt uses 150 cm of material.

He has a 600 cm roll of material.

How much material is left after making the 3 shirts?

What fraction of the original roll is left over?

2) Show and explain how you worked this out.

Alex and Eva share a bottle of juice.

Alex drinks  $\frac{3}{5}$  of the juice.

Eva drinks 200 ml of the juice.



One fifth of the juice is left in the bottle.

How much did Alex drink?

What fraction of the bottle did Eva drink?

What fraction of the drink is left?

Answers are on the next page.

# Fraction of an Amount (3)

## Reasoning and Problem Solving

Mo makes 3 rugby shirts.



Each rugby shirt uses 150 cm of material.

He has a 600 cm roll of material.

How much material is left after making the 3 shirts?

What fraction of the original roll is left over?

150 cm

This is  $\frac{1}{4}$  of his original roll of material.

Alex and Eva share a bottle of juice.

Alex drinks  $\frac{3}{5}$  of the juice.

Eva drinks 200 ml of the juice.

One fifth of the juice is left in the bottle.

How much did Alex drink?

What fraction of the bottle did Eva drink?

What fraction of the drink is left?



Alex drank 600 ml of the juice.

Eva drank one fifth of the juice.

The fraction of juice left is  $\frac{1}{5}$  of the bottle.