Lesson 34 LO: To understand that ½ and 2/4 are equivalent

Numerator
(number on the top)

$$\frac{3}{4}$$

Denominator
(number on the bottom)

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1. To get one half, split into 2 **equal** parts and look at 1 of them.
2. To get two quarters, divide into 4 **equal** parts and look at 2 of them.

Model:
Here is another delicious chocolate bar!

Can you find what two quarters ($\frac{2}{4}$) of the bar is?

Remember: $\frac{2}{4}$ is **equivalent to** $\frac{1}{2}$.
That means **they are the same**.

So: $\frac{2}{4}$ **of the bar is 4 pieces**

And $\frac{1}{2}$ of the bar is also 4 pieces!

Model: **Jeff Bob and Jumanji saved $\frac{2}{4}$ of £4 during lock down.**

What is $\frac{2}{4}$ of £4?

Think: What is half of £4?

½ of £4 is £2.

So: $\frac{2}{4}$ of £4 is also £2.

Jeff Bob and Jumanji saved £2.

Now try the questions below:

5 Write the missing numbers.

$\frac{3}{4}$ of 20 = ☐ $\frac{1}{2}$ of 20 = ☐

20

$\frac{2}{4}$ of 20 = ☐ $\frac{1}{4}$ of 20 = ☐

6 Solve the problems.

a) Find $\frac{2}{4}$ of £8

£ ☐

b) Find $\frac{2}{4}$ of 24 kg

☐ kg

How did you work out the answers?

7 Write the missing number.
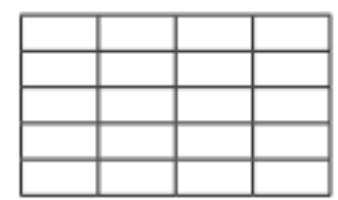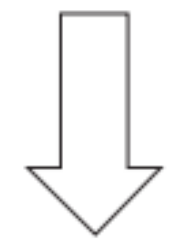
$\frac{1}{2} = \frac{\boxed{}}{4}$

8 You cannot find $\frac{2}{4}$ of this shape as you cannot divide it into 4 equal parts.

a) Do you agree with Dexter? _____

Talk about it with a partner.

b) Colour $\frac{2}{4}$ of each shape.

LO: To find fractions of amounts

Sarah shows how to solve these sorts of problems using fractions <u>in more detail</u> in her video today. It would be a good idea to watch it before beginning today's work.

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Success Criteria:

1. Look at the denominator e.g. in 3/4
2. Split the bar into the number of parts the denominator says e.g. 4
3. Divide the amount equally between the parts
4. Look at the numerator to tell you how many parts to count e.g. 3/4, so count how many in 3 parts

Model:

Jeff Bob has £3 and 50p.

He wants to give half of his money to Jumanji.
How much would his Jumanji get?

£3.50

1. Share the pounds.
2. Exchange the third left over pound for 10 lots of 10p.
3. Share the 10ps.
4. Use number facts to half 50 = 25.
5. (or if you don't know, exchange 50p for 5 lots of 10p, then the final 10p for 2 lots of 5p.)

Model: Sarah took part in a long cycle ride last year. In this photo she is $\frac{2}{3}$ of the way through and has cycled 56km.
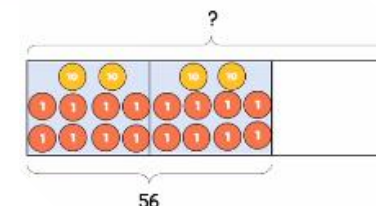
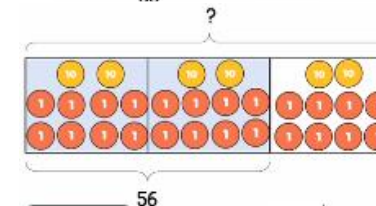What is the total distance of the race?

This bar shows Sarah has gone $\frac{2}{3}$ of the total distance.

Share 56km between two parts:

The 2 thirds both have 28 in.
So the final third must be 28 too.

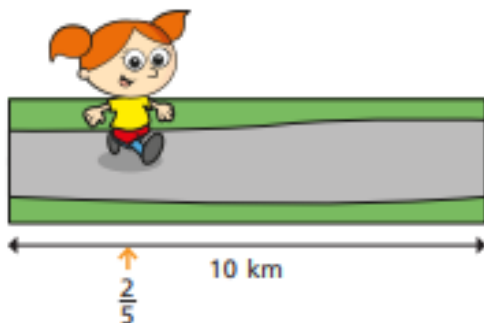Now add all the thirds together to find the total distance:

$\frac{2}{3}$ of $\boxed{84}$ km $= 56$ km

Fractions of a set of objects (3)

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.

   10 km

   $\frac{2}{5}$

   She has run two fifths of the race.

   What distance does she have left to run? ___ km
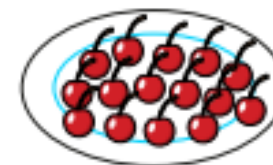
3. Filip has £3 and 20p.

   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.

   500 g Potatoes

   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? ☐