

Year 4 150520 Maths questions, recapping decimals work.

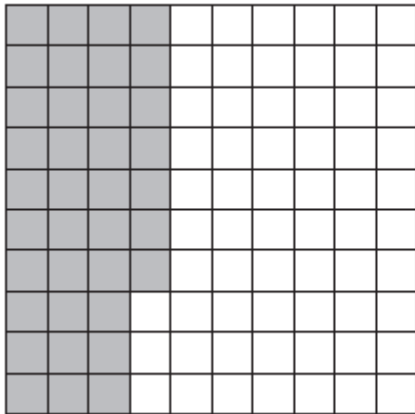
1. Seven tenths added to three tenths makes tenths, which is a whole.

$$\frac{7}{10} + \frac{3}{10} = \frac{10}{10} = 1$$

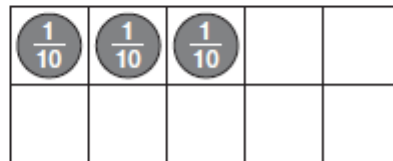
How many other ways can you make a whole from tenths?

2. Sam and Sarah each represent a decimal.

Sam's decimal



Sarah's decimal



What decimal has Sam represented?

What decimal has Sarah represented?

Which sign (< or >) would you use between these decimals?

3. Sam has 1 litre of paint.

She uses 0.4 litres of the paint on the wall and 0.1 litres of the paint on the door.

How many litres of paint does Sam have left?

Challenge question:

Here are the prices of three items in a shop.



Video game £47.98

DVD £12.98

Headphones £28.48

Rob buys a video game and a DVD.

He pays with **two** £20 notes, **two** £10 notes and **one** £5 note.

How much change does Rob receive?

ANSWERS:

1. Seven tenths added to three tenths makes tenths, which is a whole.

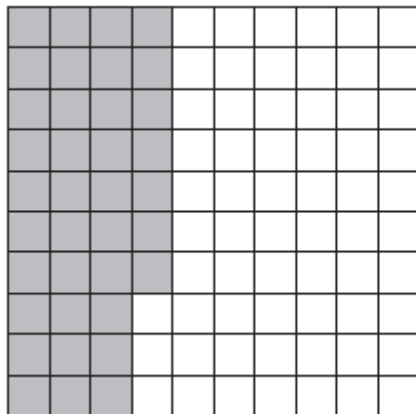
$$\frac{7}{10} + \frac{3}{10} = \frac{10}{10} = 1$$

How many other ways can you make a whole from tenths?

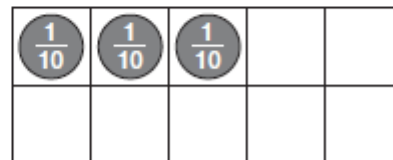
$$\begin{array}{cccc} \frac{1}{10} + \frac{9}{10} = 1 & \frac{2}{10} + \frac{8}{10} = 1 & \frac{3}{10} + \frac{7}{10} = 1 & \frac{4}{10} + \frac{6}{10} = 1 \\ \frac{5}{10} + \frac{5}{10} = 1 & \frac{6}{10} + \frac{4}{10} = 1 & \frac{7}{10} + \frac{3}{10} = 1 & \frac{8}{10} + \frac{2}{10} = 1 \\ \frac{9}{10} + \frac{1}{10} = 1 & & & \end{array}$$

2. Sam and Sarah each represent a decimal.

Sam's decimal



Sarah's decimal



What decimal has Sam represented?

$$\frac{37}{100} = 0.37$$

What decimal has Sarah represented?

$$\frac{3}{10} = 0.3$$

Which sign (< or >) would you use between these decimals?

$$0.3 < 0.37 \quad \text{and} \quad 0.37 > 0.3$$

3. Sam has 1 litre of paint.

She uses 0.4 litres of the paint on the wall and 0.1 litres of the paint on the door.

How many litres of paint does Sam have left?

$$0.4 + 0.1 = 0.5$$

$$1 - 0.5 = 0.5$$

0.5 litres left.

Challenge question:

Here are the prices of three items in a shop.



Video game £47.98

DVD £12.98

Headphones £28.48

Rob buys a video game and a DVD.

He pays with **two** £20 notes, **two** £10 notes and **one** £5 note.

How much change does Rob receive?

Handwritten solution on grid paper:

$$\begin{array}{r} 47.98 \\ + 12.98 \\ \hline 60.96 \end{array}$$
$$\begin{array}{r} 2 \times 20 = 40 \\ 2 \times 10 = 20 + \\ 1 \times 5 = 5 \\ \hline 65 \end{array}$$
$$65 - 60.96$$

Diagram illustrating the subtraction:

A horizontal line represents the total amount paid, £65. A bracket above the line from the start to the first tick mark is labeled "4p". A second bracket above the line from the first tick mark to the second tick mark is labeled "£4".

Labels below the line:

- £60.96 at the start of the line
- £61 at the first tick mark
- £65 at the end of the line

Rob receives £4.04