

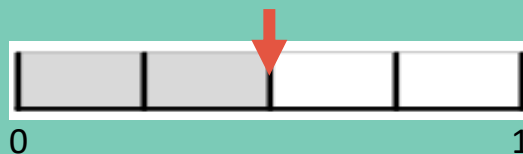
Comparing $\frac{1}{2}$ and $\frac{2}{4}$ equivalence on a number line

WORKED EXAMPLE

Equivalent fractions can be shown on a number line.

$\frac{1}{2}$ is one equal part of the whole out of two.

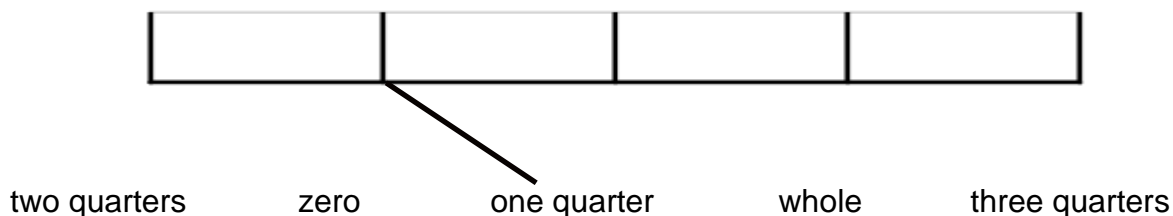
$\frac{2}{4}$ is two equal parts of the whole out of four.



$\frac{1}{2}$ and $\frac{2}{4}$ will be at the same place on the number line because $\frac{1}{2} = \frac{2}{4}$

REHEARSE

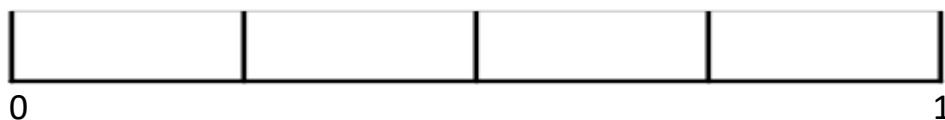
Draw a line to show where the fraction words should go on the number line.



Colour from zero to one half on the number line.

REHEARSE

Label the number line with the following fractions: $\frac{1}{4}$, $\frac{3}{4}$, $\frac{2}{4}$, $\frac{4}{4}$

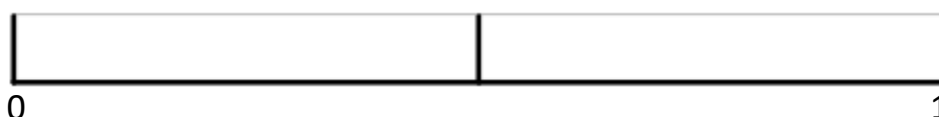


Colour from 0 to $\frac{1}{2}$ on the number line.

APPLY AND EXPLORE

What do you notice about where $\frac{4}{4}$ goes on the number line above?

Where does $\frac{2}{2}$ go on the number line below?



Is there a pattern? Can you explain why?

RETRIEVE

Can I still double and halve in the context of money?

Rita found these coins. What is the total value of the coins?



What is double the value of the coins?

How could you make this with the fewest coins?

What is half the value of the coins?

How could you make this with the fewest coins?

APPLY AND EXPLORE

Label the number line below with: half, whole, $\frac{1}{2}$, $\frac{2}{4}$, 5 out of 10 equal parts



Label any other fractions or words that you can on this number line, using what you know.

It may help to cut out the number line and fold it.

APPLY AND EXPLORE

Look at $\frac{1}{2}$, $\frac{2}{4}$ and $\frac{5}{10}$.

What do you notice? Can you explain why?