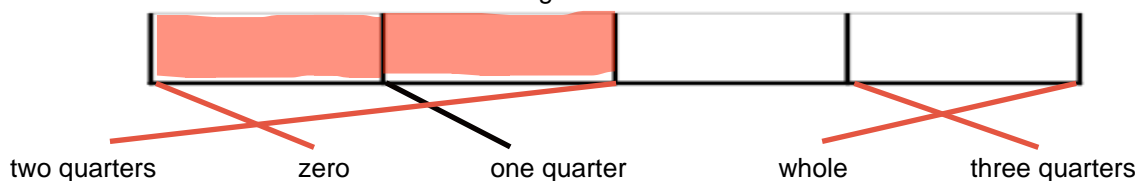


## Comparing $\frac{1}{2}$ and $\frac{2}{4}$ equivalence on a number line

### REHEARSE

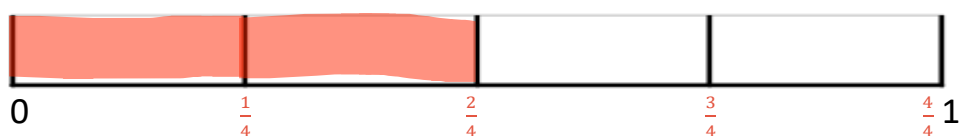
Draw a line to show where the fraction words should go on the number line.



Colour from zero to one half on the number line.

### REHEARSE

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

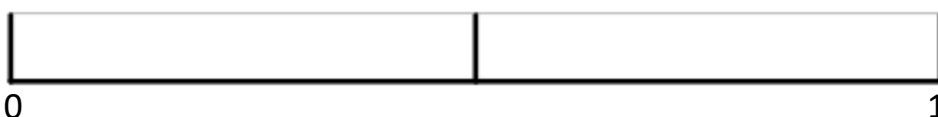


Colour from 0 to  $\frac{1}{2}$  on the number line.

### APPLY AND EXPLORE

What do you notice about where  $\frac{4}{4}$  goes on the number line above? **At the same place as 1.**

Where does  $\frac{2}{2}$  go on the number line below? **At the same place as 1.**



Is there a pattern? **Yes.** Can you explain why? **When you have all the equal parts, the numerator is the same as the denominator. Then you have the whole.**

### 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? **32p**

How could you make this with the fewest coins? **20p + 10p + 2p**

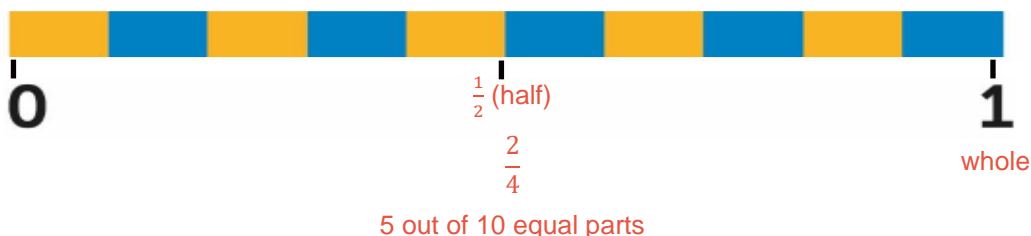
What is half the value of the coins? **8p**

How could you make this with the fewest coins? **5p + 2p + 1p**



### 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. **Various possible – could include:  $\frac{1}{4}$  (one quarter), one out of 4 equal parts,  $\frac{3}{4}$  (three quarters), 3 out of 4 equal parts,  $\frac{5}{10}$**

### APPLY AND EXPLORE

Look at  $\frac{1}{2}$ ,  $\frac{2}{4}$  and  $\frac{5}{10}$ . What do you notice? Can you explain why?

**If the numerator is half of the denominator, the fraction is equivalent to a half. You have half of the equal parts.**