



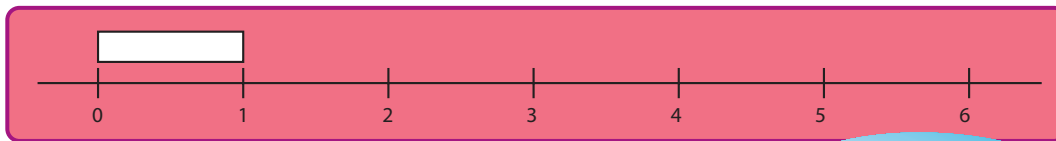
Fraction Line-up

You need  paper

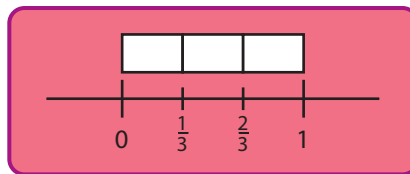
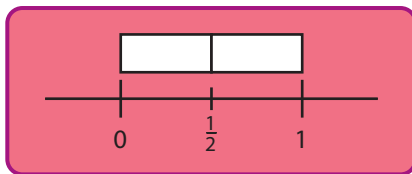
 scissors

Activity

Marika and Karlene make a large-scale number line, using identical strips of paper to measure off the units. They start by drawing in the whole numbers:



We could fold the strips to find out where to put fractions, like this.



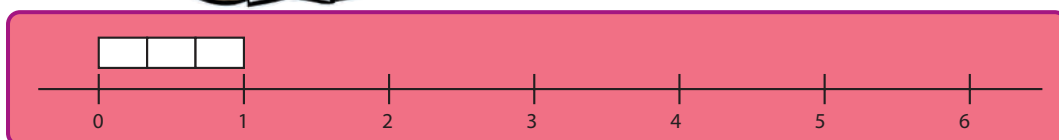
Mr Gibbs, their teacher, challenges them to put these fractions on their number line:

$\frac{7}{3}$ $\frac{13}{4}$ $\frac{2}{2}$ $\frac{12}{5}$ $\frac{4}{1}$ $\frac{36}{8}$

Well, 1 is the same as 3 thirds.
2 strips make $\frac{6}{3}$.



Now we just need 1 more third
to make $\frac{7}{3}$.



1. Draw a large-scale number line and show where each of the six fractions belong. Fold paper strips to help you if you wish.

2. Marika and Karlene's number line only goes up to 6. They write fractions that are too large to fit on it and then imagine where these numbers belong.

Where does 113 quarters ($\frac{113}{4}$) live on the number line?

Well, it's more than 20.
20 is 80 quarters.

And it's more than 25.
25 is 100 quarters.



3. Where would these fractions live on the number line?

a. $\frac{1001}{5}$

b. $\frac{49}{2}$

c. $\frac{10}{100}$

d. $\frac{67}{8}$

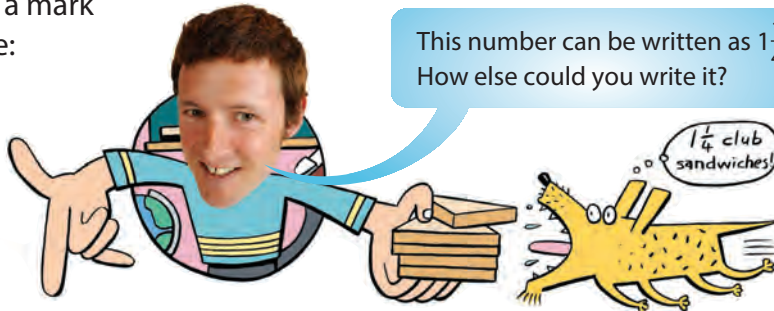
e. $\frac{55}{7}$

f. $\frac{1}{999}$

g. $\frac{400}{3}$

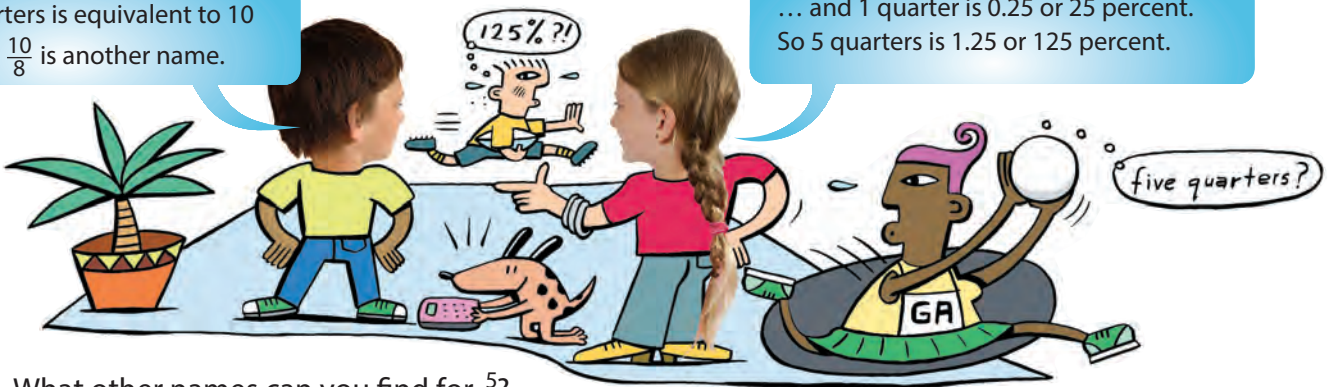
4. Mr Gibbs points at a mark on the number line:

This number can be written as $1\frac{1}{4}$ or $\frac{5}{4}$.
How else could you write it?



Well, 5 quarters is equivalent to 10 eighths, so $\frac{10}{8}$ is another name.

... and 1 quarter is 0.25 or 25 percent.
So 5 quarters is 1.25 or 125 percent.



What other names can you find for $\frac{5}{4}$?

5. Find at least five names for each of these numbers, and draw them on your number line:

a. $\frac{17}{3}$

b. $\frac{22}{4}$

c. $\frac{6}{6}$

d. $\frac{18}{5}$

e. 250%