Year 3
Maths
Tuesday 23rd June 2020

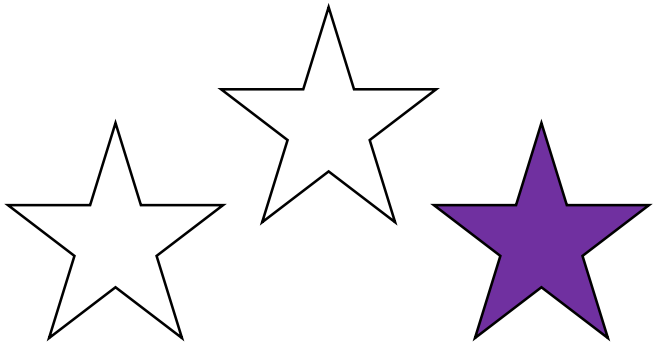
Lesson Aims

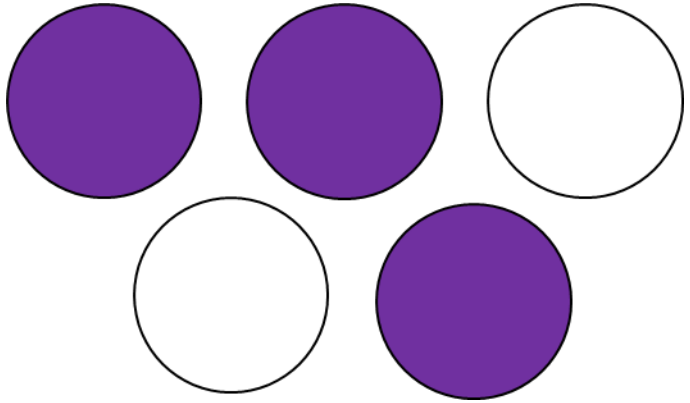
- LO: To be able to recognise equivalence in fractions.

- SC: I can make a fraction wall to help me understand equivalent fractions.
- I know that half is the same as 2 quarters, 3 sixths, 4 eighths.

Fluency Starter

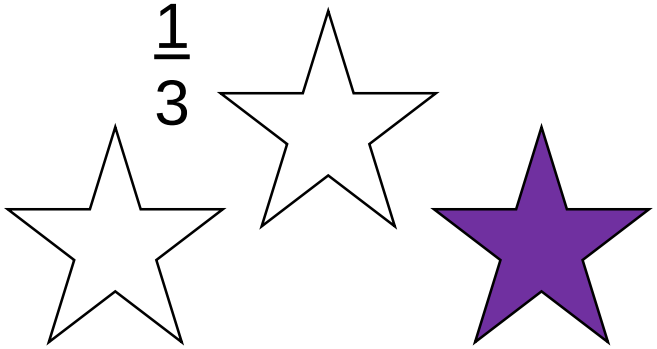
- What fraction of each set is shaded?
- How do you know?



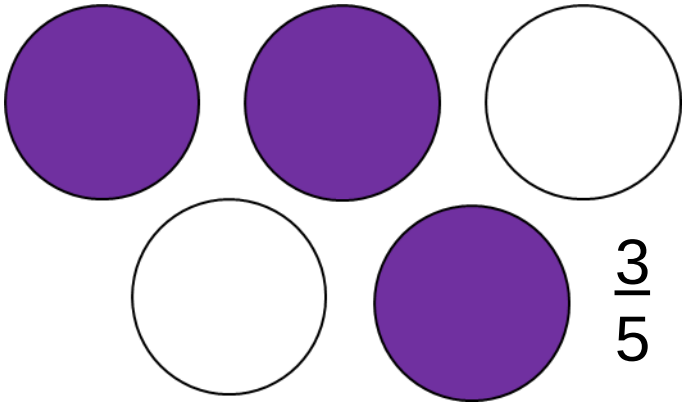


Fluency Starter Answers

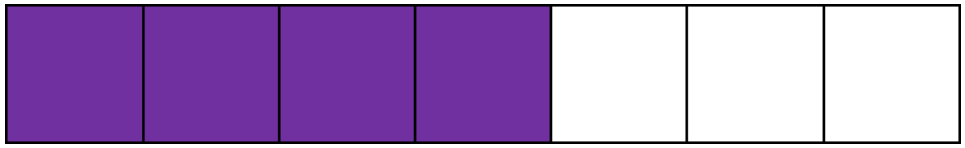
- What fraction of each set is shaded?
- I know because the numerator (top number) is the amount of shapes in the set shaded. The denominator (bottom number) tells me how many parts make a whole.



$\frac{1}{3}$



$\frac{3}{5}$



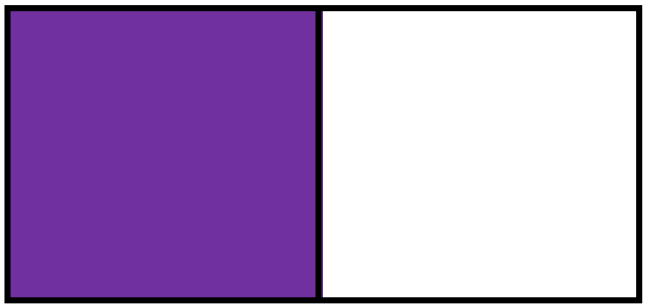
$\frac{4}{7}$

Main Teaching

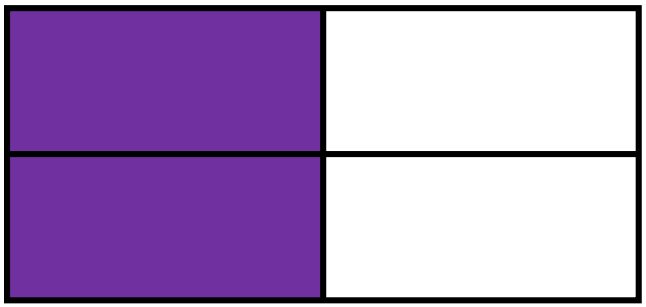
This week, we are going to be concentrating on equivalent fractions, particularly half.

Some fractions that are written with different numbers have the same value.

In other words, a fraction can be written in many different ways, but have the same value.

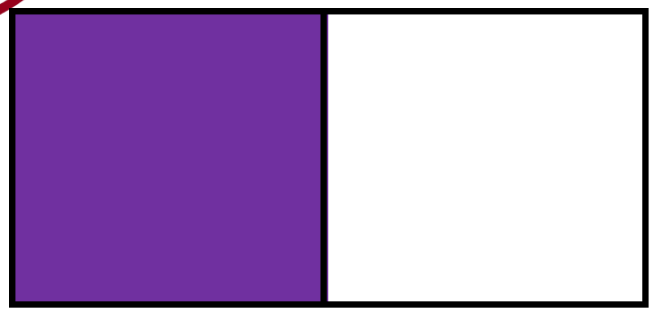


$\frac{1}{2}$

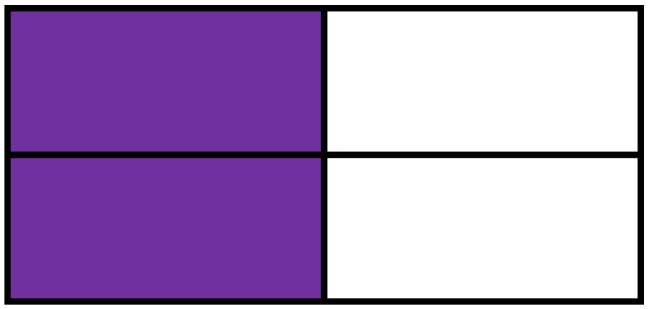


$\frac{2}{4}$

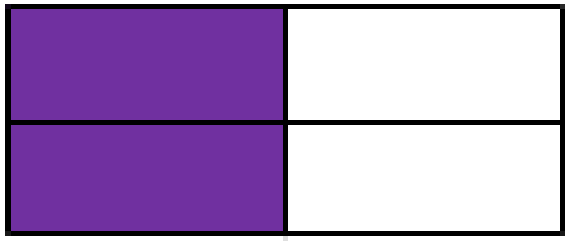
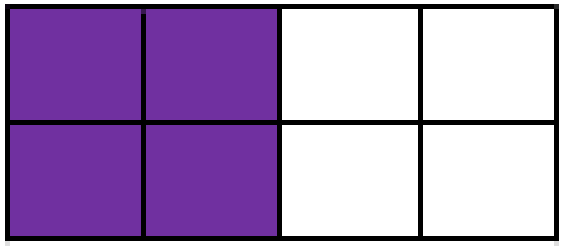
Main Teaching



$\frac{1}{2}$

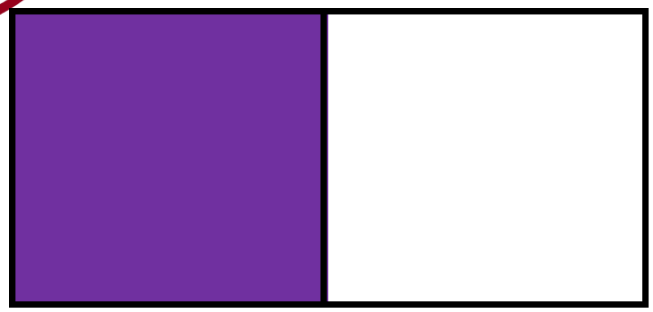


$\frac{2}{4}$

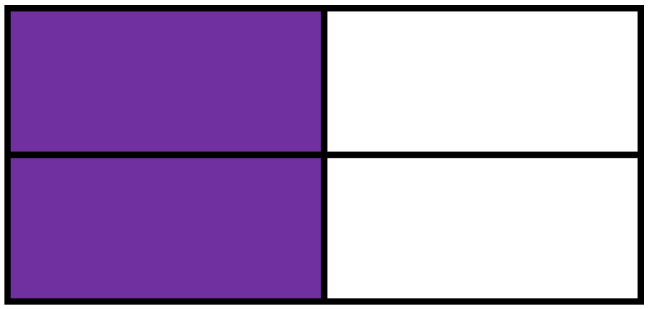
$\frac{2}{4}$  =  $\frac{4}{8}$

Can you see how they are similar?

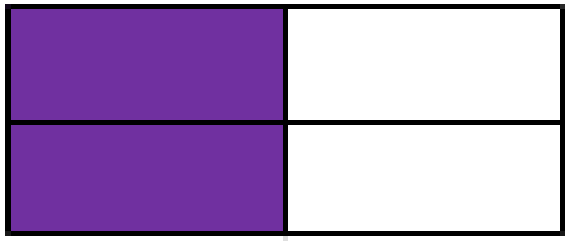
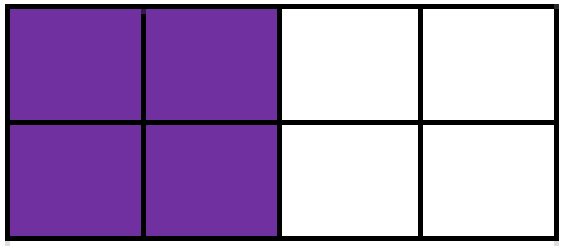
Main Teaching



$\frac{1}{2}$



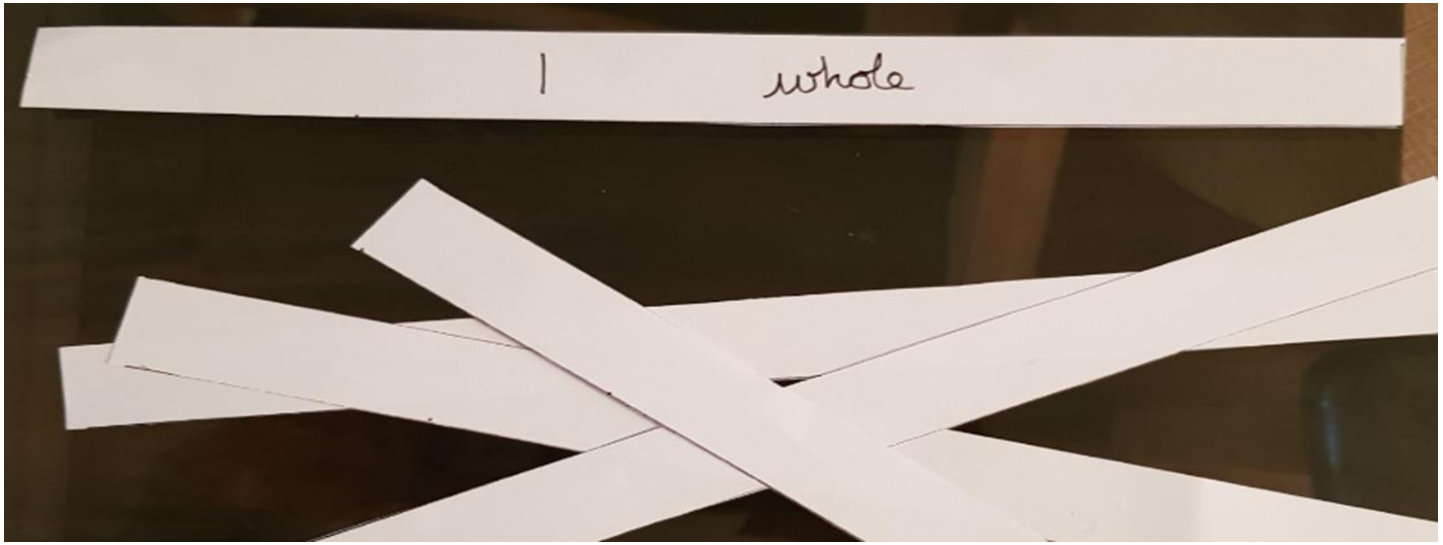
$\frac{2}{4}$

$\frac{2}{4}$  =  $\frac{4}{8}$

These fractions are all equivalent as they have the same value.

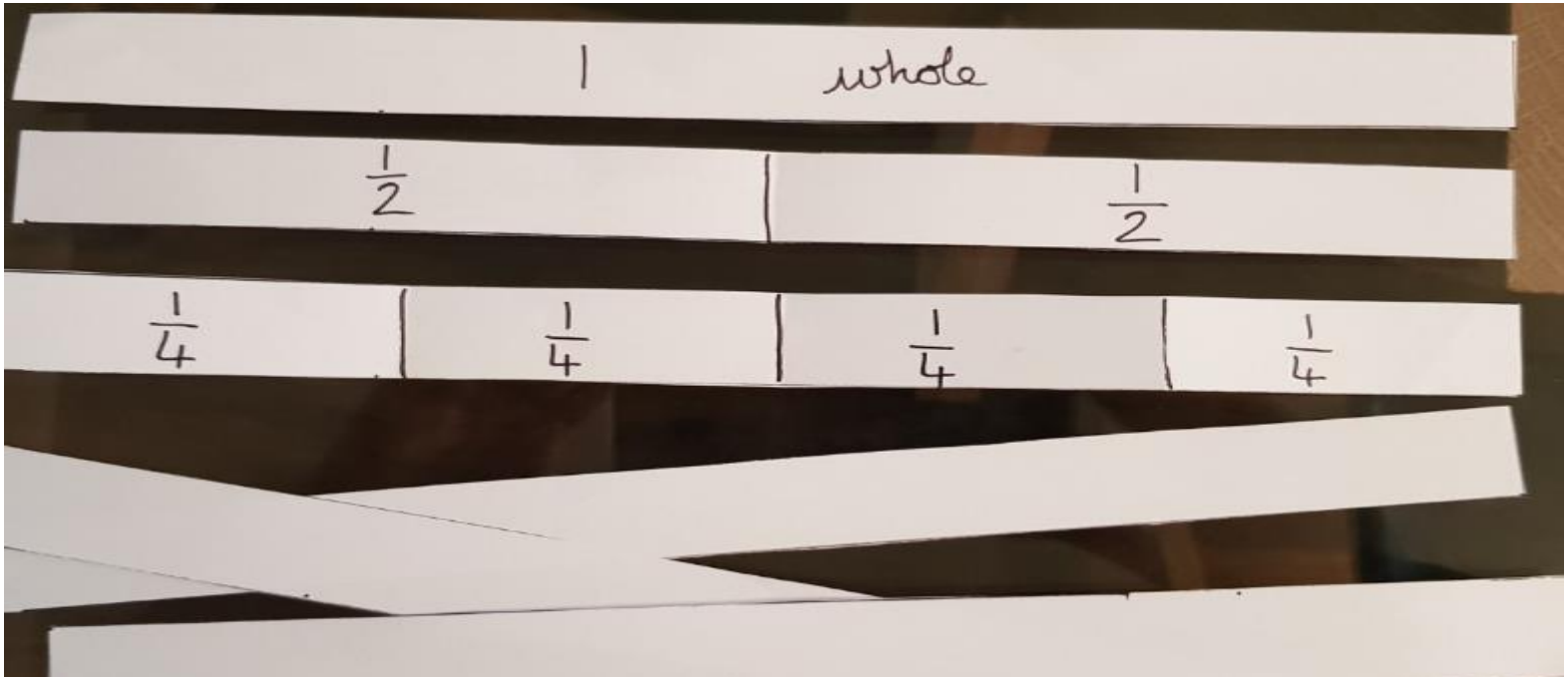
Main Teaching

- You will need an A4 piece of paper to make your own fraction wall.
- Cut the paper into 6 strips, each 24cm long, the width doesn't matter.
- On one of the pieces of paper, please write **1** and the word **whole**.



Main Teaching

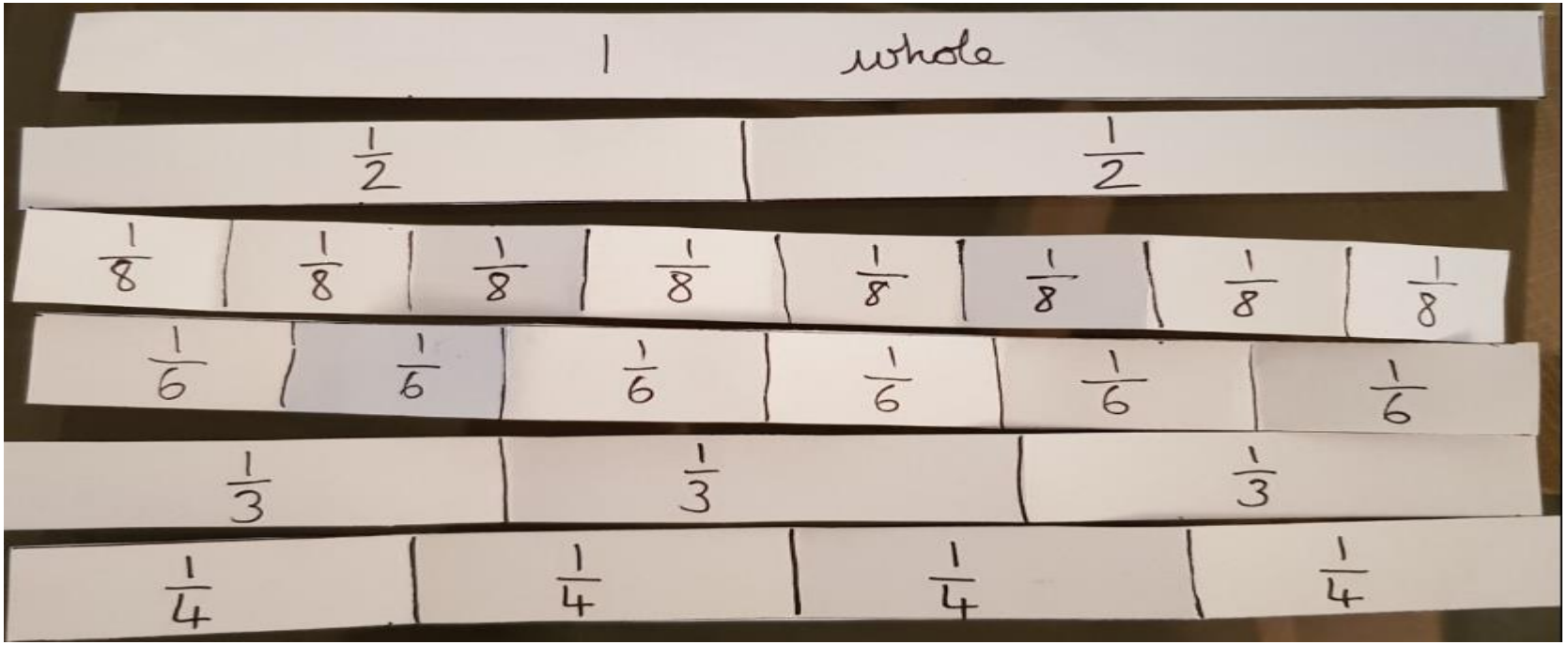
- Please fold another strip of paper in half. Draw a line where the fold is and write $\frac{1}{2}$ on both sides of the line.
- Please fold another strip of paper in half and then in half again. Draw a line where the folds are and write $\frac{1}{4}$ in each of the individual sections.



Main Teaching

- Please fold another strip of paper in half, in half again and in half again. Draw a line where the seven folds are and write $\frac{1}{8}$ in each of the individual sections.
- Please fold the two remaining strips of paper into 8cm long sections, so there are three sections.
- On one of the strips, draw a line where the two folds are and write $\frac{1}{3}$ in each of the individual sections.
- Then with the other strip still folded, fold it in half again. Unfold, draw a line where the five folds are and write $\frac{1}{6}$ in each of the individual sections.

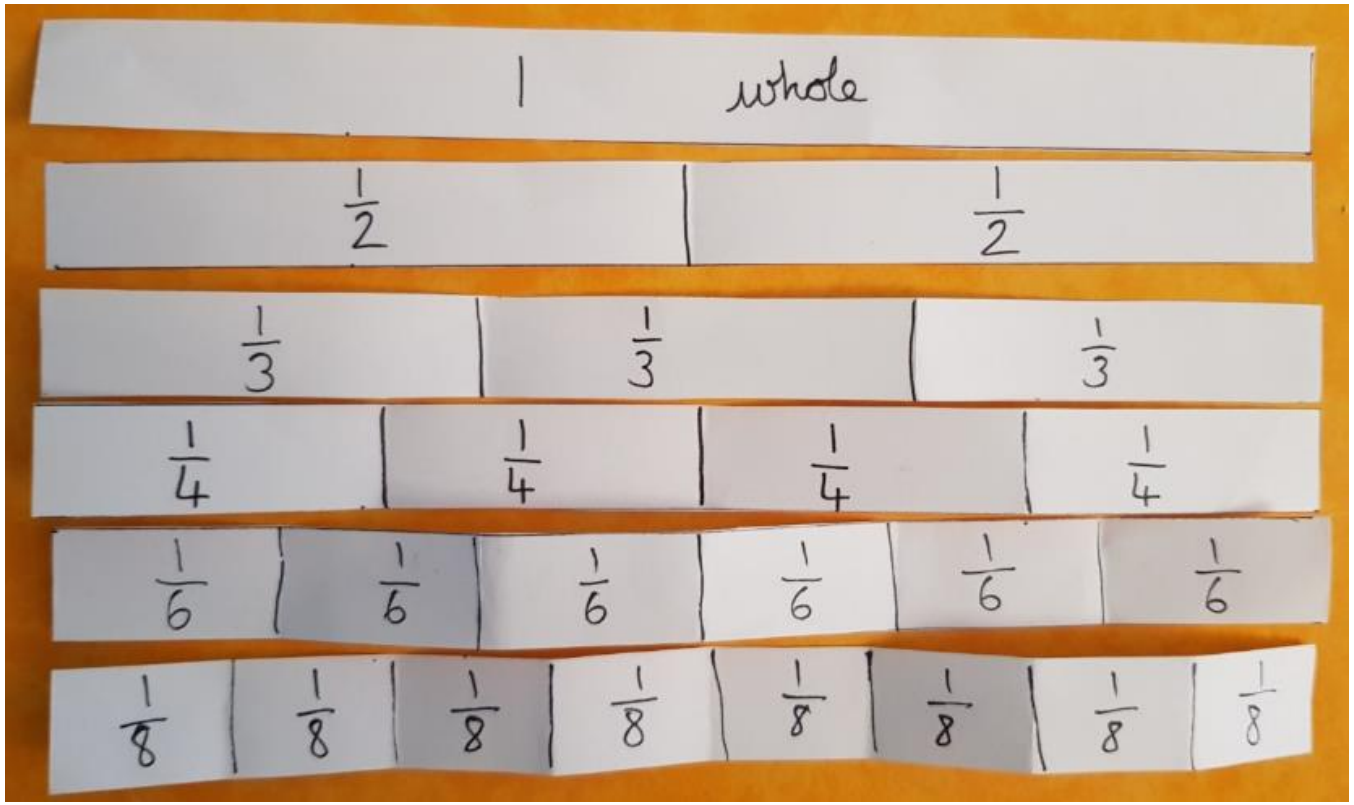
Main Teaching



- Then put the fractions into order with the biggest at the top, through to the smallest at the bottom. Glue it on to a sheet of paper.

Main Teaching

- Congratulations! You have made your own fractions wall. You will need this later this week.



Problem Solving

- Using your fraction wall, what fractions are equivalent to:
- $\frac{1}{4}$

- $\frac{1}{2}$

- $\frac{1}{3}$

Problem Solving Answers

- Using your fraction wall, use a ruler to show you what fractions are equivalent to:
- **$\frac{1}{4} = \frac{2}{8}$**
- **$\frac{1}{2} = \frac{2}{4} = \frac{4}{8}$**
- **$\frac{1}{3} = \frac{2}{6}$**

Activity

- Check out Teacher Talk on the BBC iPlayer.
- https://www.bbc.co.uk/iplayer/episode/p08bsv98/bitesize-79-year-olds-week-3-6-teacher-talks-comparing-fractions
- You can use your new fraction wall to answer the questions.

Review

- Freya says $\frac{1}{2}$ is equivalent to $\frac{2}{3}$ as she has added 1 to both the numerator and denominator. Is she correct?

- Sasha says $\frac{1}{2}$ is not equivalent to $\frac{5}{10}$ as you have added 4 to the numerator and 8 to the denominator. Is she correct?

Use your fraction wall to help you answer if Freya and Sasha are correct.

Review Answer

- Freya says $\frac{1}{2}$ is equivalent to $\frac{2}{3}$ as she has added 1 to both the numerator and denominator. **Freya is wrong.**

- Sasha says $\frac{1}{2}$ is not equivalent to $\frac{5}{10}$ as you have added 4 to the numerator and 8 to the denominator. **Sasha is wrong as $\frac{5}{10}$ IS equivalent to $\frac{1}{2}$**