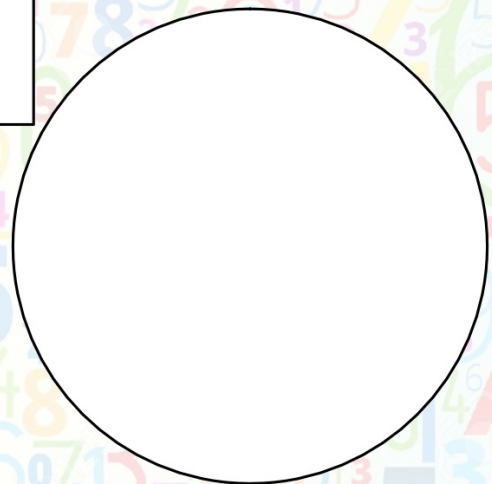
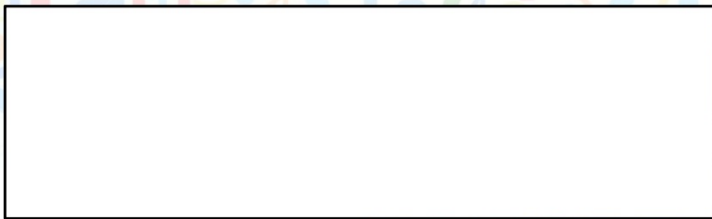


20/1/21

Before we start, you will need to get yourself some strips of paper that are equal in length and some paper circles that are the same size.



20/1/21

Comparing Fractions

In Focus

Sam and Ruby each have a paper circle of the same size.



Sam cuts the circle into 2 equal parts and keeps 1 part.

Ruby cuts the circle into 4 equal parts and keeps 1 part.

Who keeps a bigger part, Sam or Ruby?

To solve this, you may want to get yourself some circular pieces of paper.

Comparing Fractions

Explore this

In Focus

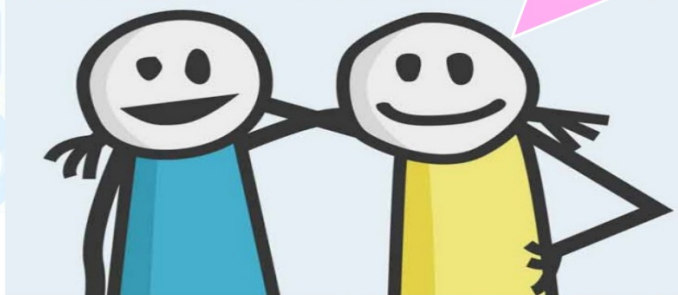
Sam and Ruby each have a paper circle of the same size.



Sam cuts the circle into 2 equal parts and keeps 1 part.
Ruby cuts the circle into 4 equal parts and keeps 1 part.
Who keeps a bigger part, Sam or Ruby?

Are you able to help solve this problem by looking at the picture and using the pieces of paper in front of you. You may cut, fold or write on the paper as you see fit.

I can draw a bar model to show which fraction is bigger.



Is this possible?

What would it look like?

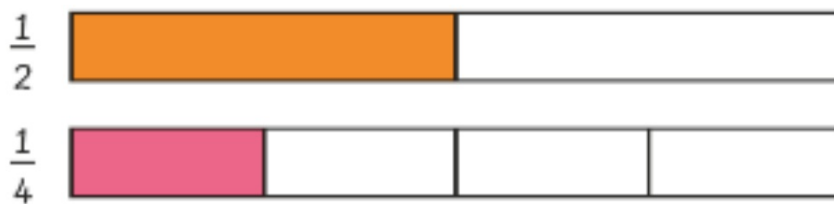
Represent the two fractions by using strips of paper and folding them and then drawing a bar model.

Fold your paper

Draw a bar model

Let's Learn

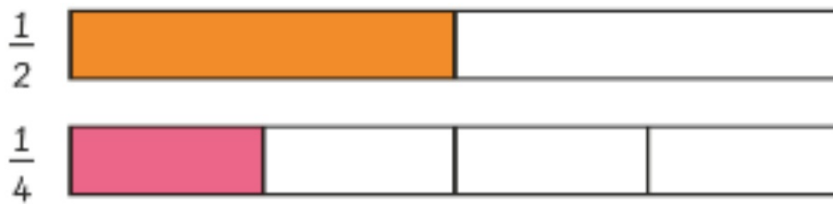
- 1 Which is greater, $\frac{1}{2}$ or $\frac{1}{4}$?



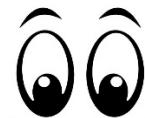
Explain how you know.

Let's Learn

- 1 Which is greater, $\frac{1}{2}$ or $\frac{1}{4}$?



$\frac{1}{2}$ is greater than $\frac{1}{4}$.



Watch video clip "Explanation 1"

2

$$\frac{1}{4}$$



$$\frac{1}{2}$$



$$\frac{1}{2} = \frac{2}{4}$$

So, $\frac{1}{2}$ is greater than $\frac{1}{4}$.

2 quarters is greater than 1 quarter.





Watch video clip "Explanation 1"

3 Ruby cuts  into 4 equal parts.

Sam cuts  into 2 equal parts.

The parts Ruby gets are smaller.

 is less than .

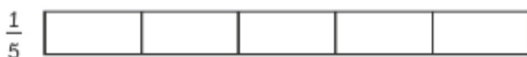
So, $\frac{1}{4}$ is less than $\frac{1}{2}$.

$\frac{1}{2}$ is greater than $\frac{1}{4}$.

Watch video
clip 
"Explanation 1"

Guided Practice


1 Which number is greater?




2 Which number is smaller?



3 Compare using =, < or >.

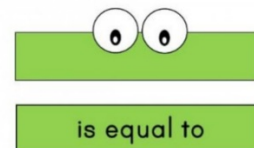
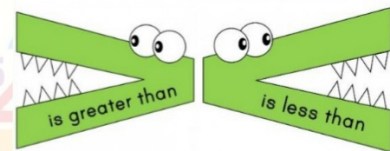
(a) $\frac{1}{2}$  $\frac{1}{10}$

(b) $\frac{1}{2}$  $\frac{1}{3}$

(c) $\frac{1}{10}$  $\frac{1}{3}$

Did you notice?

If the numerators are the same, but the denominators are different, the denominator with the biggest number has the smaller sized pieces



Draw them out as bar model if this helps you.

Comparing Fractions

1 Compare the fractions and fill in the blanks. Shade the bars to help you.

(a) $\frac{1}{3}$

$\frac{1}{5}$

is greater than .

(b) $\frac{1}{6}$

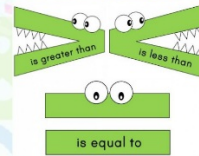
$\frac{1}{5}$

is greater than .

(c) $\frac{1}{11}$

$\frac{1}{3}$

is smaller than .



2 Compare the fractions and fill in the blanks with fractions, > or <. Shade the bars to help you.

(a) $\frac{1}{2}$

$\frac{1}{10}$

is greater than .

$\frac{1}{2}$ $\frac{1}{10}$

(b) $\frac{1}{4}$

$\frac{1}{6}$

is smaller than .

$\frac{1}{6}$ $\frac{1}{4}$

Complete these worksheets