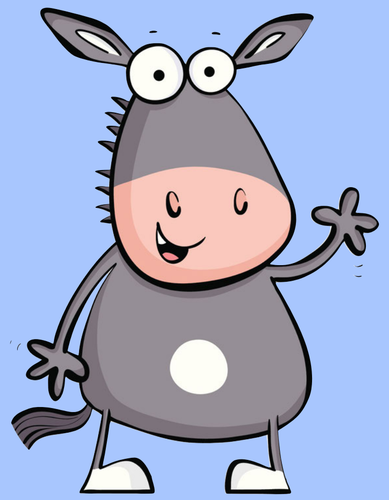
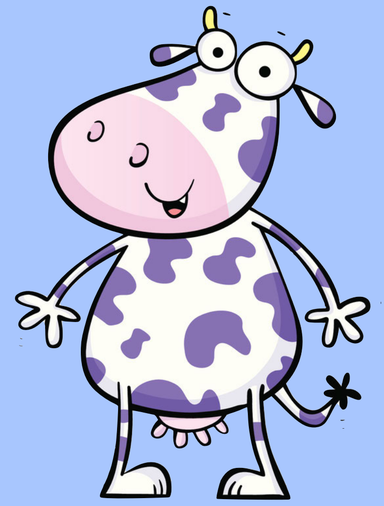


Finding Fractions

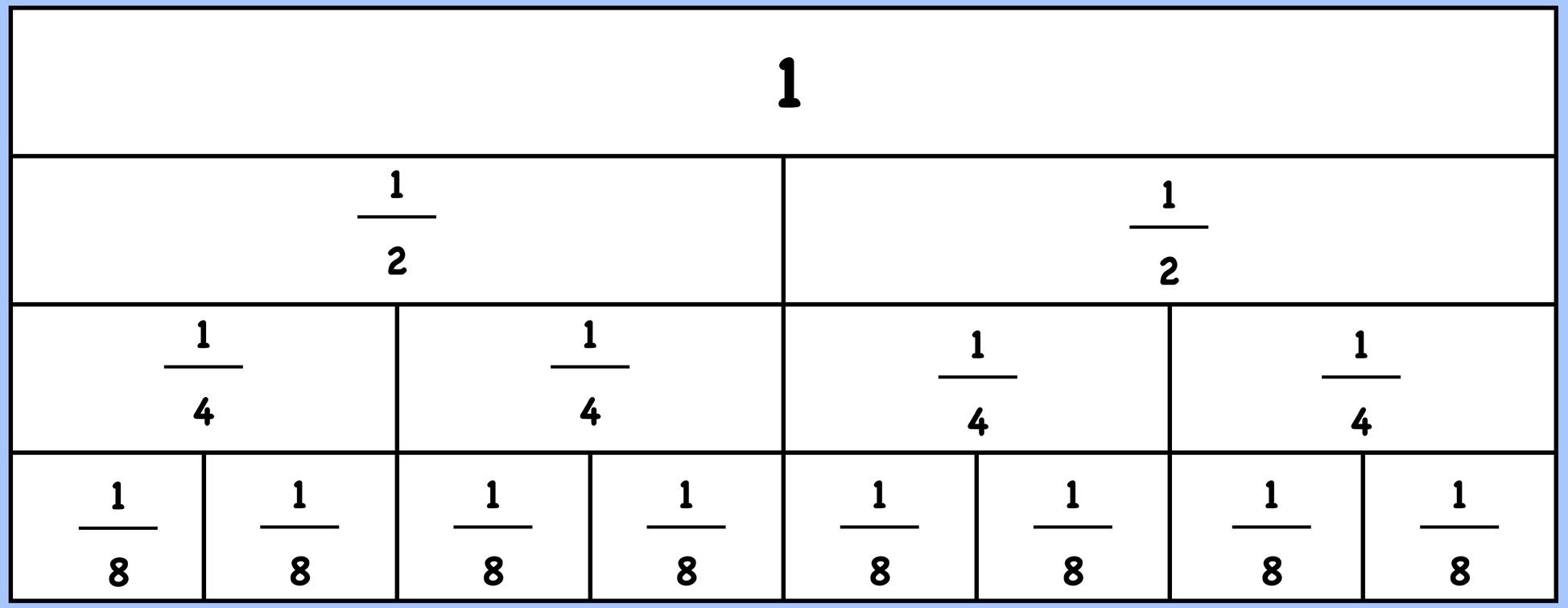


Learning Objective:

To recognise simple equivalent fractions

Next

This is a **fraction wall.**



What can you tell me about the different fractions using this wall?

Think, pair, then share your ideas.

Back

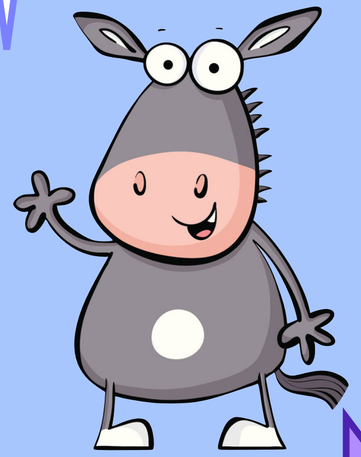
Next

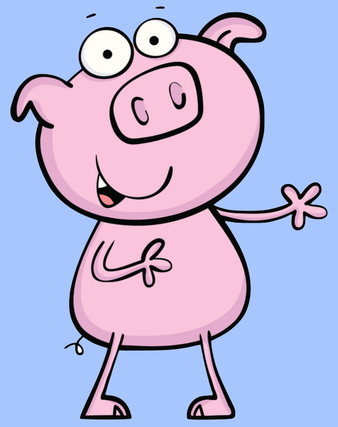
How many of these observations did you make?

I can see that there are two halves in a whole. One half is smaller than a whole.

1							
$\frac{1}{2}$				$\frac{1}{2}$			
$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$	
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$

I can see that there are four quarters in a whole. One quarter is smaller than one half.





I can see that there are eight eighths in a whole. One eighth is smaller than one quarter.

Back

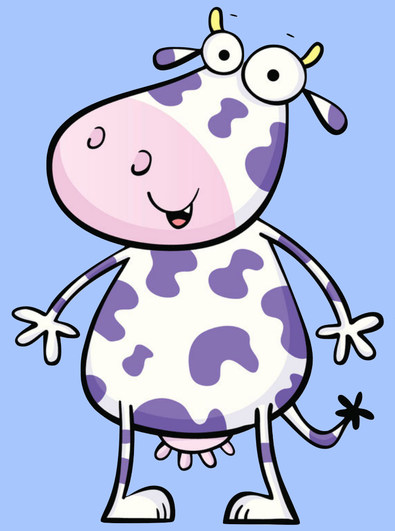
Next

Did you also spot that...

1							
$\frac{1}{2}$				$\frac{1}{2}$			
$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$	
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$

One half has the **same value** as two quarters!

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



Can you find any other combinations of fractions that have the same value as **one half**?

Back

Next

Did you also spot that...

1							
$\frac{1}{2}$				$\frac{1}{2}$			
$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$	
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$

One half has the **same value** as four eighths!

$$\frac{1}{2} = \frac{4}{8}$$

Can you find any other combinations of fractions that have the same value as **one quarter**?

Back

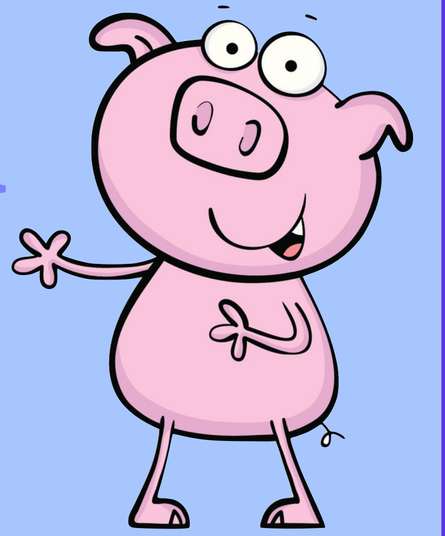
Next

Did you also spot that...

1							
$\frac{1}{2}$				$\frac{1}{2}$			
$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$	
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$

One quarter has the **same value** as two eighths!

$$\frac{1}{4} = \frac{2}{8}$$



How many **quarters** have the same value as **four eighths**?

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Next

Did you also spot that...

1							
$\frac{1}{2}$				$\frac{1}{2}$			
$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$	
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$

Two quarters have the **same value** as four eighths!

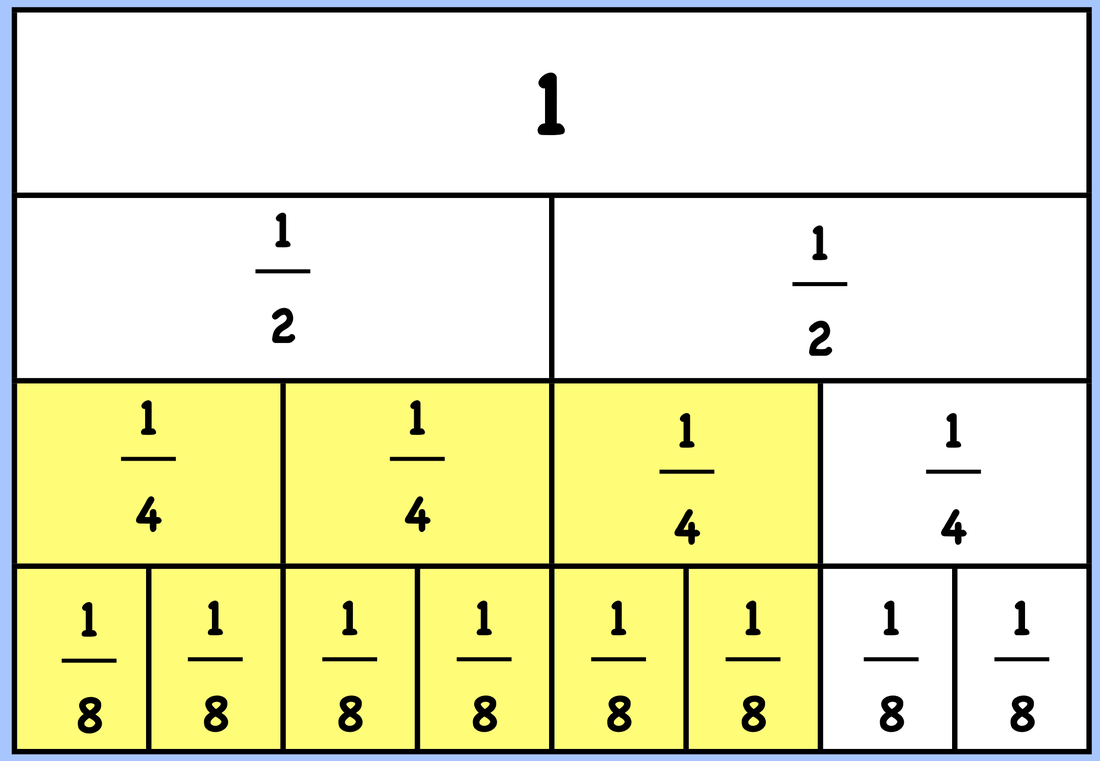
$$\frac{2}{4} = \frac{4}{8}$$

How many **quarters** have the same value as **six eighths**?

Back

Next

Did you also spot that...



Three quarters have the **same value** as six eighths!

$$\frac{3}{4} = \frac{6}{8}$$

If two fractions have the **same value**, they have a special name...

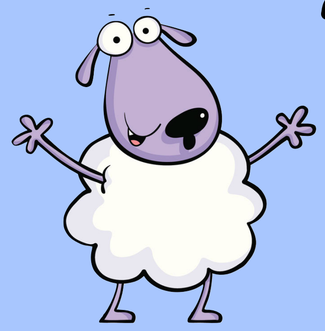
Back

Next

They are called **equivalent** fractions.

1			
$\frac{1}{2}$		$\frac{1}{2}$	
$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$

$\frac{1}{2} = \frac{\quad}{\quad}$ $\frac{1}{2} = \frac{\quad}{\quad}$ $\frac{1}{4} = \frac{\quad}{\quad}$ $\frac{2}{4} = \frac{\quad}{\quad}$ $\frac{3}{4} = \frac{\quad}{\quad}$



With a partner, and using the fraction wall, can you fill in the missing equivalent fractions?

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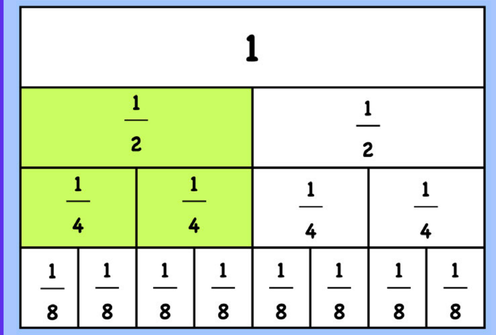
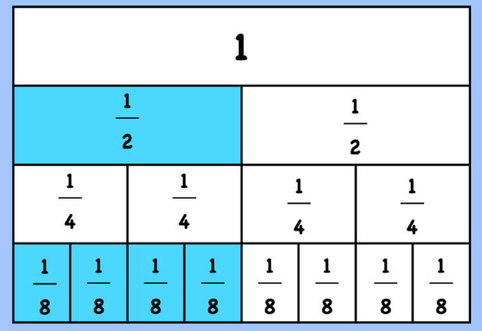
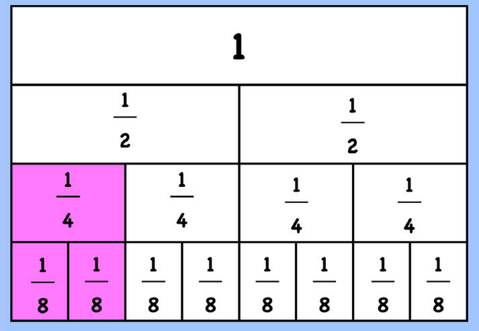
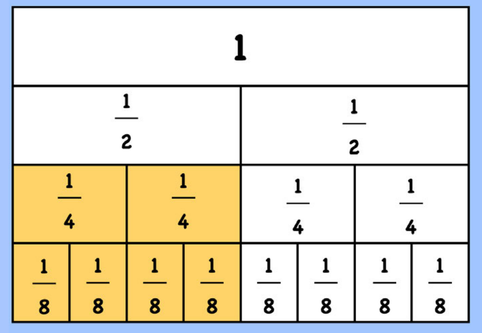
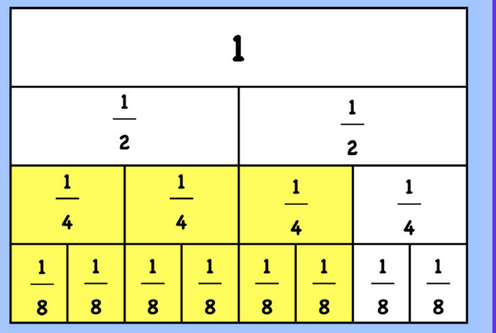
Did you find all of the equivalent fractions?





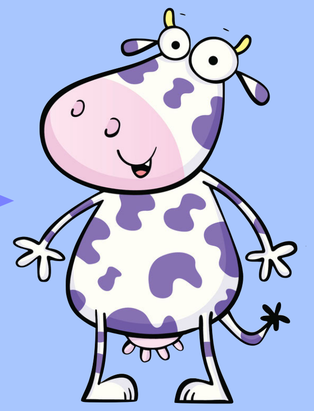






$$\frac{1}{2} = \frac{2}{4} \qquad \frac{1}{2} = \frac{4}{8} \qquad \frac{1}{4} = \frac{2}{8} \qquad \frac{2}{4} = \frac{4}{8} \qquad \frac{3}{4} = \frac{6}{8}$$

Great work! Now let's have a look at a different fraction wall...



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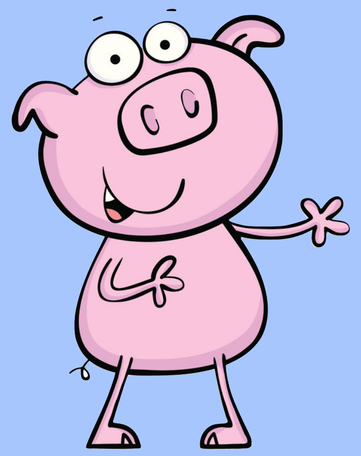
1									
$\frac{1}{2}$					$\frac{1}{2}$				
$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$	
$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$



With a partner, see how many **equivalent** fractions you can find on this fraction wall.

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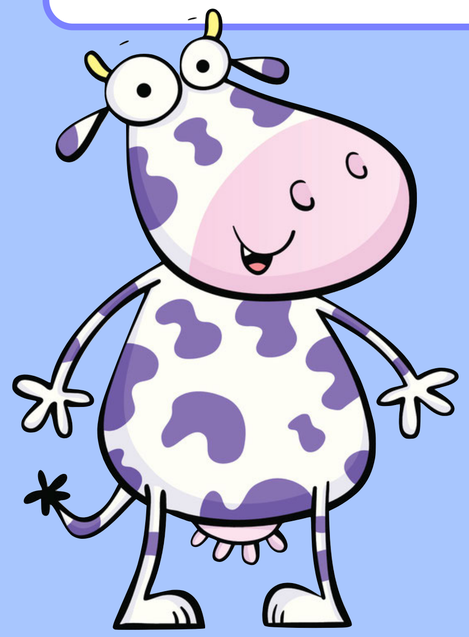
Next

What other fraction on this wall is equivalent to **one half**?



1									
$\frac{1}{2}$					$\frac{1}{2}$				
$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$	
$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$

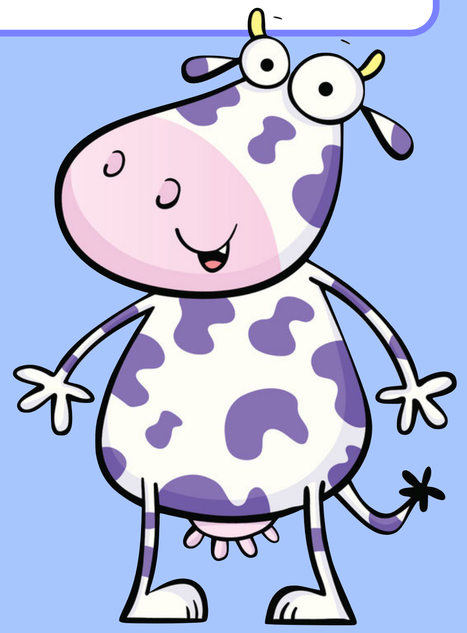
Think, pair, then share your ideas.

Back

Next

One half is **equivalent** to five tenths!

$$\frac{1}{2} = \frac{5}{10}$$



1									
$\frac{1}{2}$					$\frac{1}{2}$				
$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$	
$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$

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Next

What other fraction on this wall is equivalent to **one fifth**?

1									
$\frac{1}{2}$					$\frac{1}{2}$				
$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$	
$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$

Think, pair, then share your ideas.

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Next

One fifth is **equivalent** to two tenths!

$$\frac{1}{5} = \frac{2}{10}$$

1									
$\frac{1}{2}$					$\frac{1}{2}$				
$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$	
$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$

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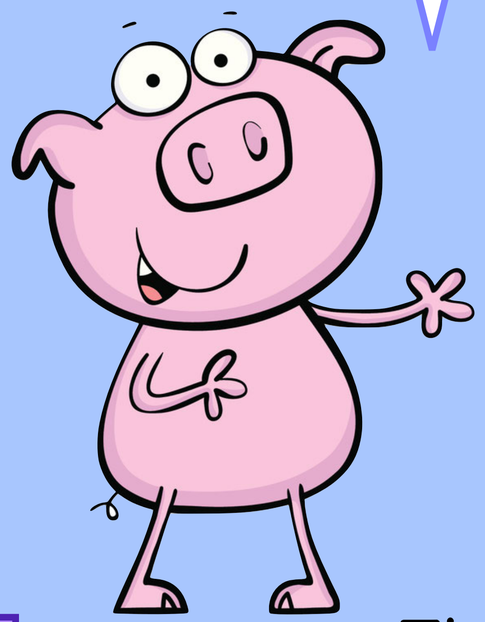
What other fraction on this wall is equivalent to **two fifths**?



1									
$\frac{1}{2}$					$\frac{1}{2}$				
$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$	
$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$

Think, pair, then share your ideas.

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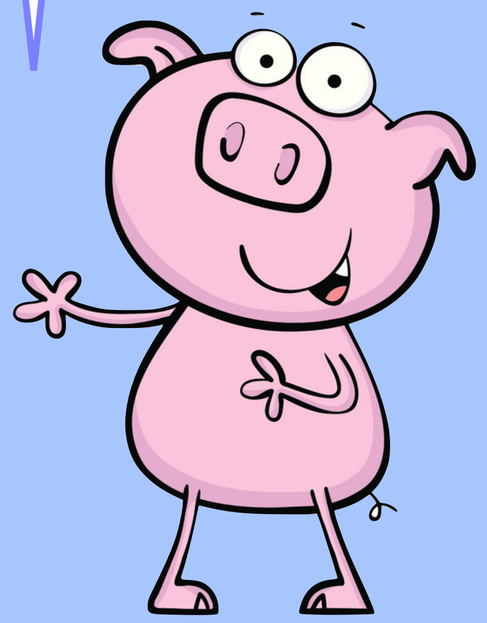
Next

Two fifths is **equivalent** to four tenths!

$$\frac{2}{5} = \frac{4}{10}$$



1					
$\frac{1}{2}$			$\frac{1}{2}$		
$\frac{1}{5}$	$\frac{1}{5}$		$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$
$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$

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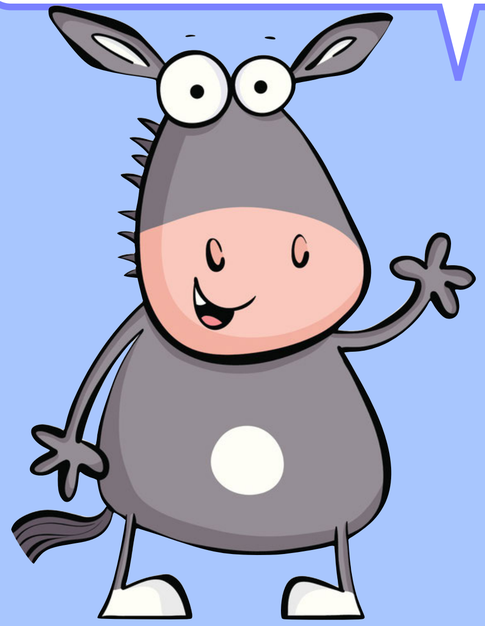
Next

What other fraction on this wall is equivalent to **three fifths**?



1									
$\frac{1}{2}$					$\frac{1}{2}$				
$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$	
$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$

Think, pair, then share your ideas.

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Next

Three fifths is **equivalent** to six tenths!

$$\frac{3}{5} = \frac{6}{10}$$

1					
$\frac{1}{2}$				$\frac{1}{2}$	
$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$	
$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$

$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$	
$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$

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

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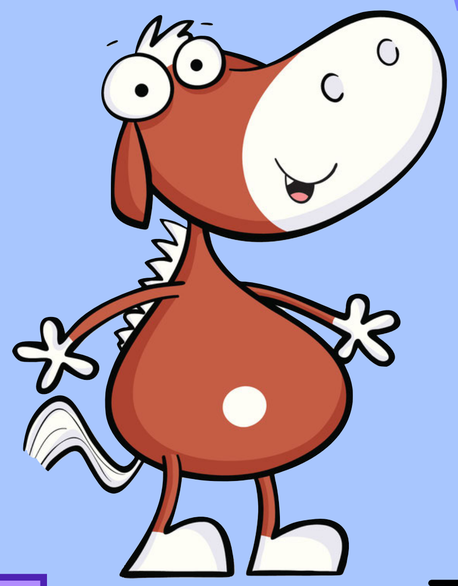
Next

What other fraction on this wall is equivalent to **four fifths**?



1									
$\frac{1}{2}$					$\frac{1}{2}$				
$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$	
$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$

Think, pair, then share your ideas.

Back

Next

Four fifths is **equivalent** to eight tenths!

$$\frac{4}{5} = \frac{8}{10}$$

1									
$\frac{1}{2}$					$\frac{1}{2}$				
$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$	
$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$

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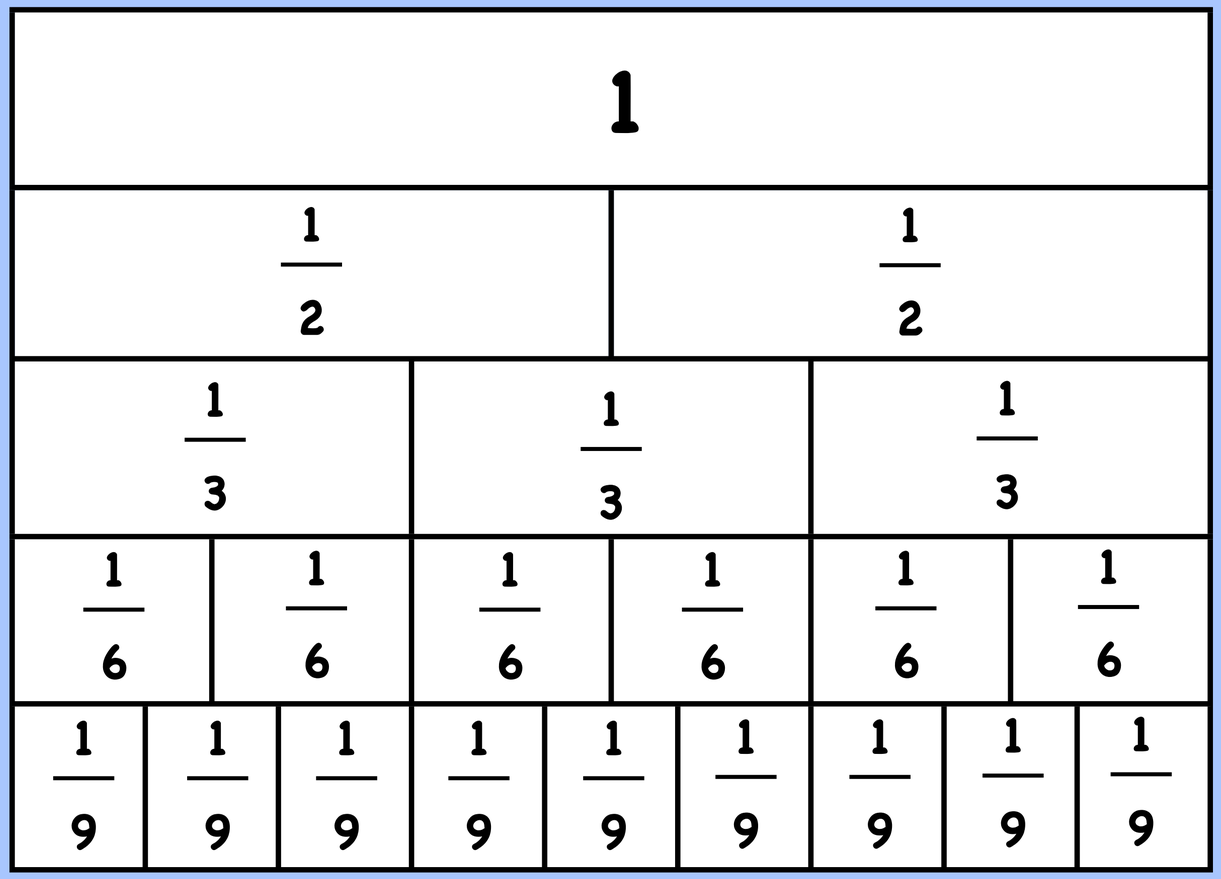
Next

There are **seven** equivalent fractions on this wall.
Can you find them all?!



Think, pair, then share your ideas.

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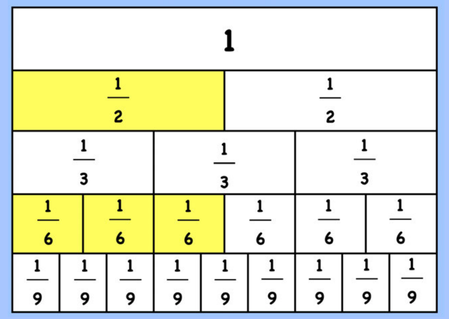
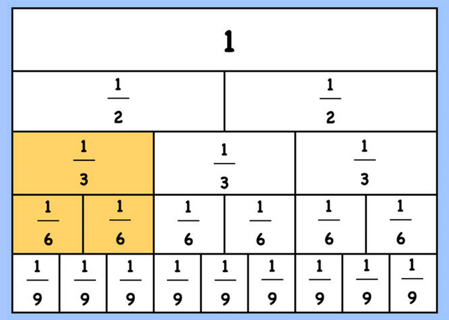
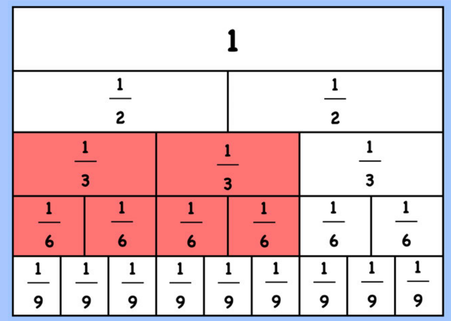
How many did you find?



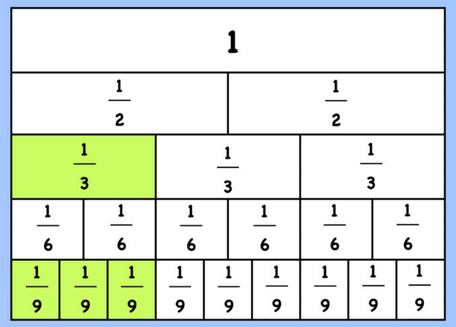
$$\frac{1}{2} = \frac{3}{6}$$



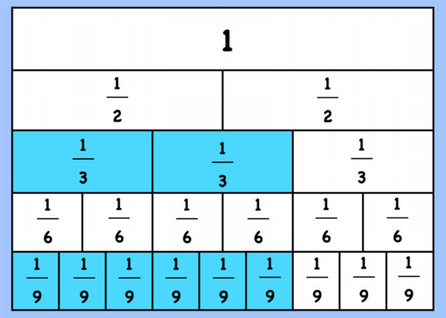
$$\frac{1}{3} = \frac{2}{6}$$



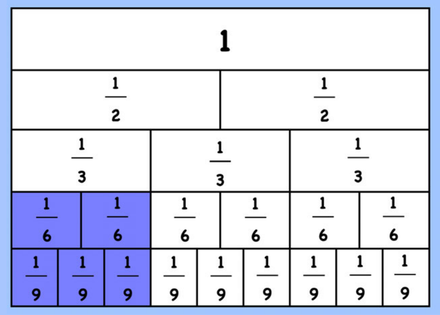
$$\frac{2}{3} = \frac{4}{6}$$



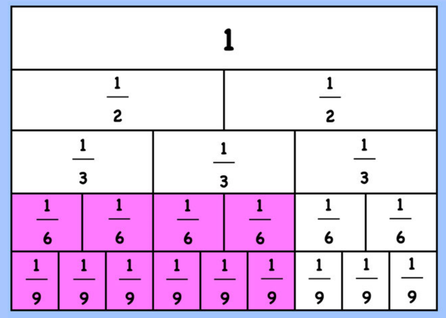
$$\frac{1}{3} = \frac{3}{9}$$



$$\frac{2}{3} = \frac{6}{9}$$



$$\frac{2}{6} = \frac{3}{9}$$



$$\frac{4}{6} = \frac{6}{9}$$

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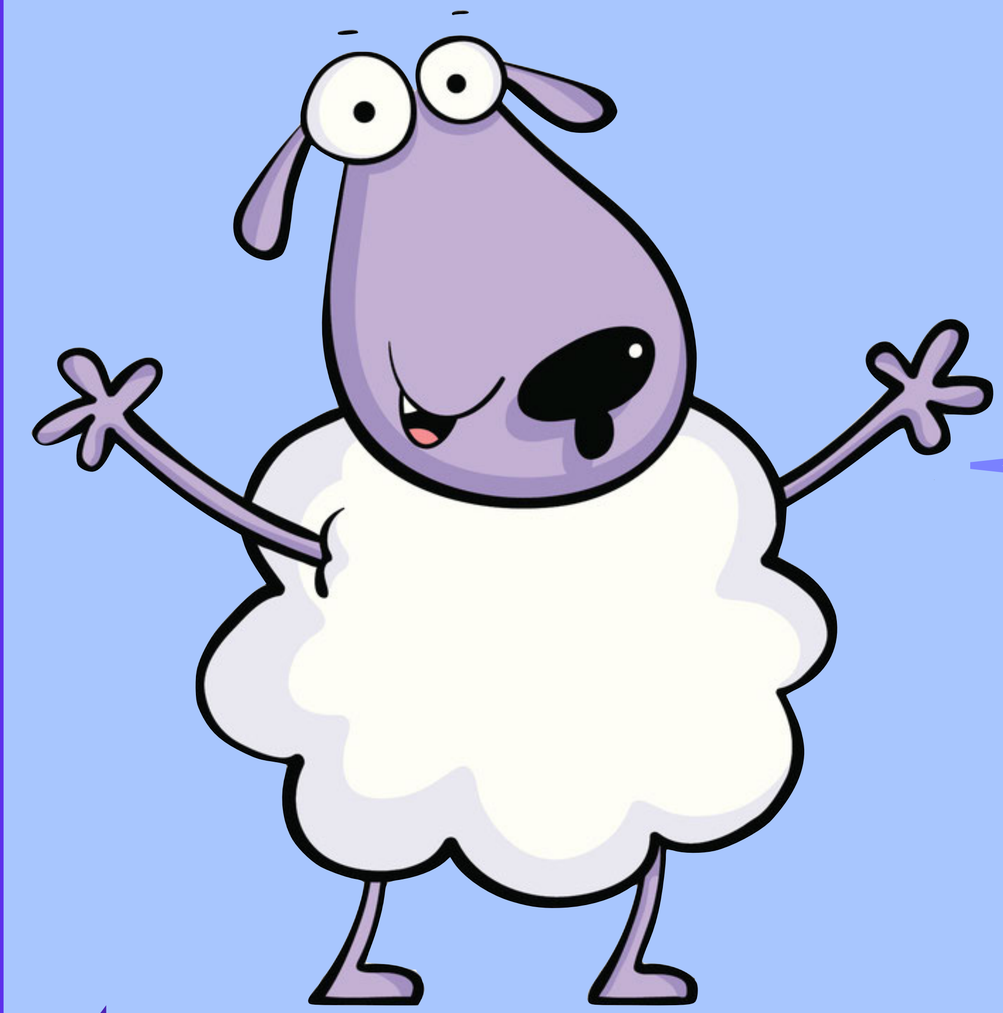

Great work everyone! I think you're ready to do some independent work on equivalent fractions now!

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Plenary:

How would you explain to her that they both have the same amount of food?

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