

Here we have one unit. Can you divide it into halves first? Now divide it into quarters. How do we write one half, one quarter?









Revision: So when one whole unit is broken up into 2 equal parts we call them halves.



1/2 means 1 part out of 2 equal parts. $\frac{2}{2}$ means 2 parts out of 2 equal parts which is the

same as one whole

When one whole unit is broken up into 4 equal parts we call them quarters.





The picture shows us ½ of

same as $\frac{2}{4}$

the pizza is the

¼ means 1 part out of 4 equal parts.

 $\frac{4}{4}$ means 4 parts out of 4 equal parts which is the same as one whole.

	1	ļ			ļ	1		Wh eacl	en we 1 part	divide is calle	a shape d an eig	e into e ghth or	eight equa 1 .
<u>1</u> 4		1 4		1 4		<u>1</u> 4		1/8	1 1		1		
18	18	18	18	18	18	18	18	18	1 1	$\frac{1}{8}$ $\frac{1}{8}$	8 1 8		$\frac{1}{8}$ $\frac{1}{8}$ $\frac{1}{8}$ $\frac{1}{8}$ $\frac{1}{8}$



If you have completed this work well done!!!!

(denominator) gets bigger, the size of the part gets smaller. Eg.

$\frac{1}{8}$ is smaller than $\frac{1}{4}$

3. Use the fraction wall to answer the following questions.



We call these mixed numbers. A mixed number is a whole number (one full unit) and another fraction.

Word Problems

- 1. If Mr. Mcgovern ate $\frac{1}{2}$ a pizza, what fraction would be left?
- 2. If Mr. O' Connor ate $\frac{2}{4}$ of his sandwich what fraction would he have left.
- 3. Ms. O'keeffe ate $\frac{1}{2}$ of the chocolate bar and her dad ate $\frac{1}{4}$ of the bar. How much was left for Mr. O' Keeffe?

Your aim: To know less than $\frac{1}{2}$, Equal to $\frac{1}{2}$, Greater than a $\frac{1}{2}$.



Introducing $\frac{1}{5}' s$ and $\frac{1}{10}' s$

A Halves, fifths, tenths.

1. Which is greater?

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

(a) $\frac{1}{5}$ or $\frac{1}{10}$ (b) $\frac{4}{5}$ or $\frac{1}{2}$ (c) $\frac{7}{10}$ or $\frac{3}{5}$ (d) $\frac{1}{2}$ or $\frac{6}{10}$ (e) 1 unit or $\frac{9}{10}$ (f) $\frac{4}{5}$ or $\frac{8}{10}$



2. Write a fraction that has the same value as:

(b) $\frac{3}{5}$ (c) $\frac{4}{10}$

- Mr. Mcgowan invited 4 teachers over to his house for tea. How many equal parts should the cake be cut into to share it fairly? (Don't forget Mr. Mcgowan- he loves cake)
- 2. If Mr. Mcgowan intended to give everybody at the party 2 slices how many equal parts should he cut it into?
- 3. If you were one of Mr. Mcgowan's guests and you loved cake which would you prefer? 1 piece of cake when the cake is cut into 5 equal pieces or 2 pieces of cake when the cake is cut into 10 equal pieces? (don't forget to use your fraction wall)
- 4. 2 cakes were baked for a party for 20 people. How many equal parts should the cake be cut into.

Introducing $\frac{1}{3}'s$, $\frac{1}{6}'s$, $\frac{1}{9}'s$, $\frac{1}{12}'s$ (thirds, sixths, ninth's, twelfth's)



Make your own fraction wall!!!

Fraction Wall: 1st row thirds, 2nd row sixths, 3rd row ninths, 4th row twelfths.

C Put t	hese fraction	ns in order. Star	with the smallest.	
1. $\frac{2}{3}$, 1, 1	2. $\frac{5}{6}, \frac{1}{6}, \frac{3}{6}$	3. $\frac{7}{12}, \frac{11}{12}, \frac{8}{12}$	
4. $\frac{1}{3}$	$\frac{1}{6}, \frac{5}{6}$	5. $\frac{2}{9}, \frac{2}{3}, \frac{5}{9}$	6. $\frac{11}{12}, \frac{7}{12}, \frac{3}{6}$	

Your aim:

- to know the numerator and the denominator
- to investigate the relationship between fractions using a fraction wall.





If you have completed this work well done!!!!