



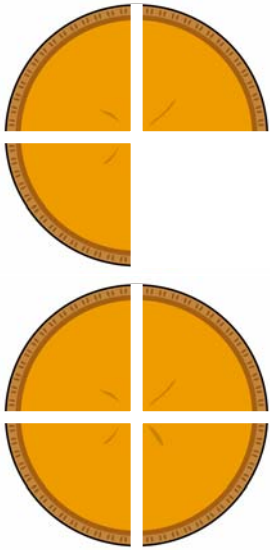
My Fraction Mini-Office

Name _____

Fractions - parts of a whole

Fractions are numbers that tell how many parts of a whole. If you cut a pizza into 6 equal slices, you can use fractions to tell what part of the pizza you have.





parts of a fraction

3

NUMERATOR

tells how many parts we have

4

DENOMINATOR

tells how many parts the whole is divided into

Types of Fractions

Proper Fraction

a part of 1 whole
numerator < denominator

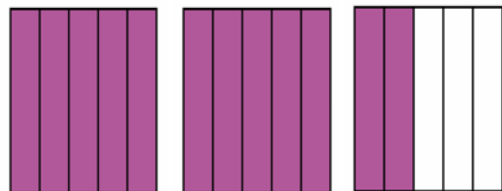
$\frac{3}{4}$



Improper Fraction

one or more wholes,
and part of another
whole
numerator > denominator

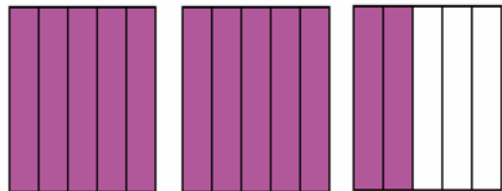
$\frac{12}{5}$



Mixed Number

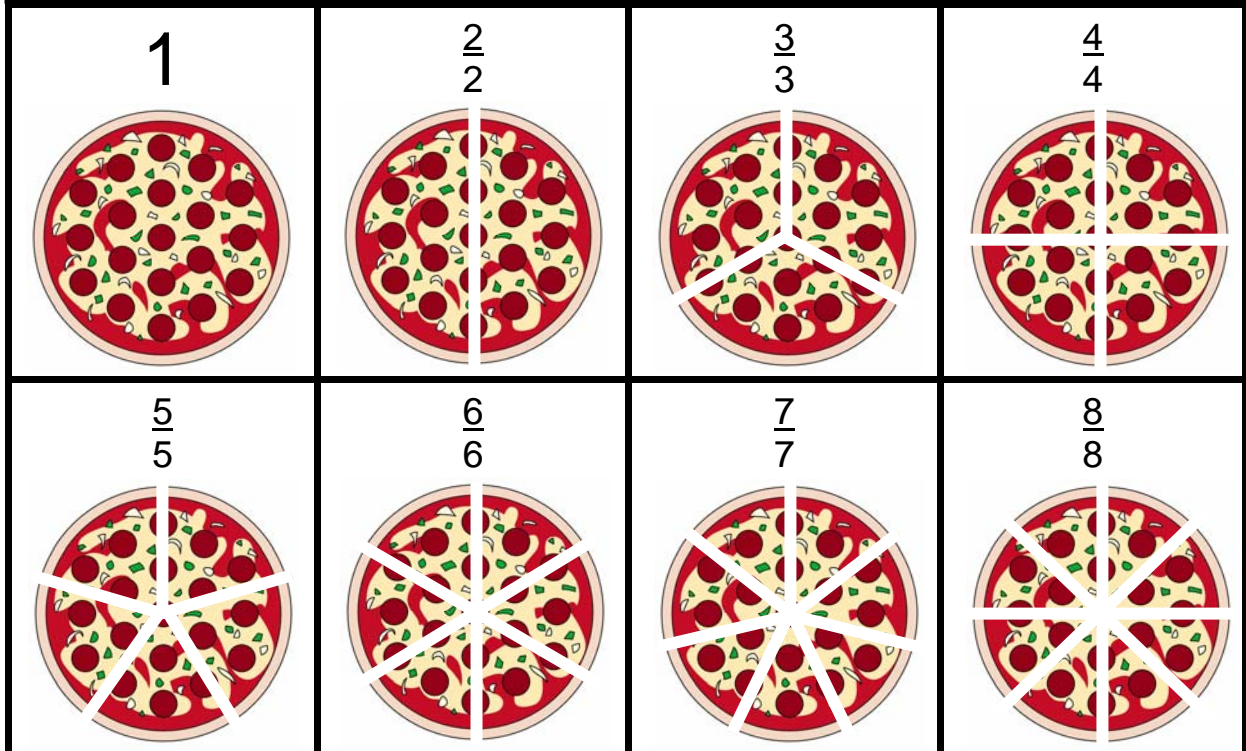
the same as an
improper fraction, but
written as a whole
number and a proper
fraction

$2\frac{2}{5}$



Fractions Equal to One Whole

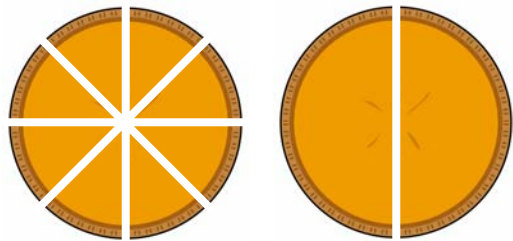
You can slice a pizza different ways, but if all the pieces are there it is still one whole pizza. If the numerator and denominator are the same, the fraction equals 1.



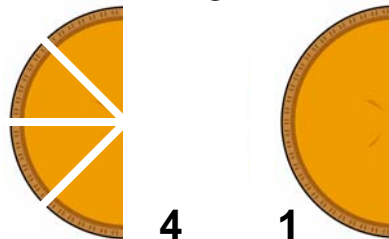
Equivalent Fractions

One pie has been cut into 8 equal pieces. The other has been cut into 2 equal pieces.

You can see that 4 pieces of one pie is the same amount of pie as 1 piece of the other pie. They are equal.



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



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

Adding Fractions

To add fractions, both fractions must have the same denominator. That means that in both fractions the whole must be divided into the same number of pieces. Then, just add the numerators.

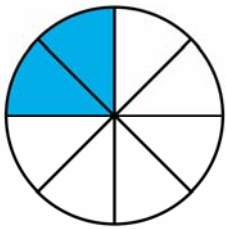
$$\frac{2}{8}$$

+

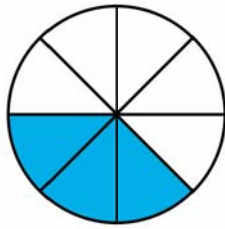
$$\frac{3}{8}$$

=

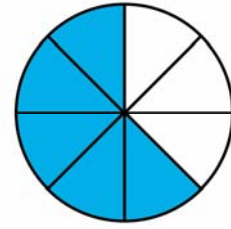
$$\frac{5}{8}$$



+



=



Subtracting Fractions

Just like when adding fractions, both fractions must have the same denominator to subtract them. Then, subtract the numerators.

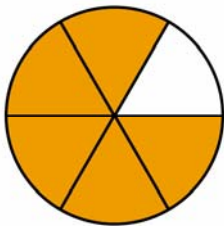
$$\frac{5}{6}$$

-

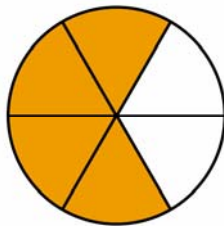
$$\frac{4}{6}$$

=

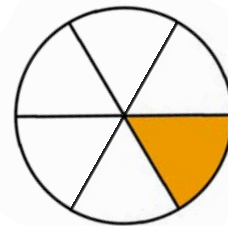
$$\frac{1}{6}$$



-

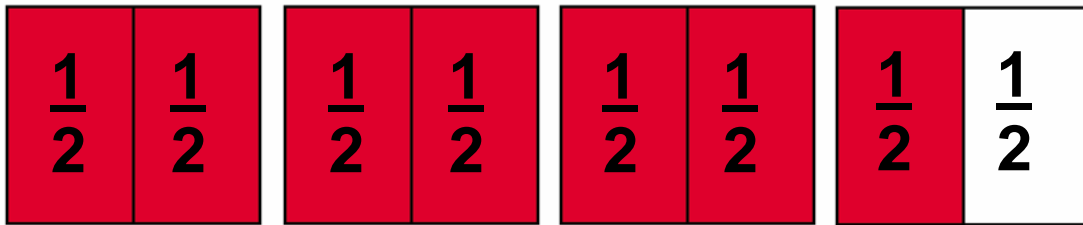


=



Improper Fractions

These are easy to spot because the top number is bigger than the bottom number. Here's why:



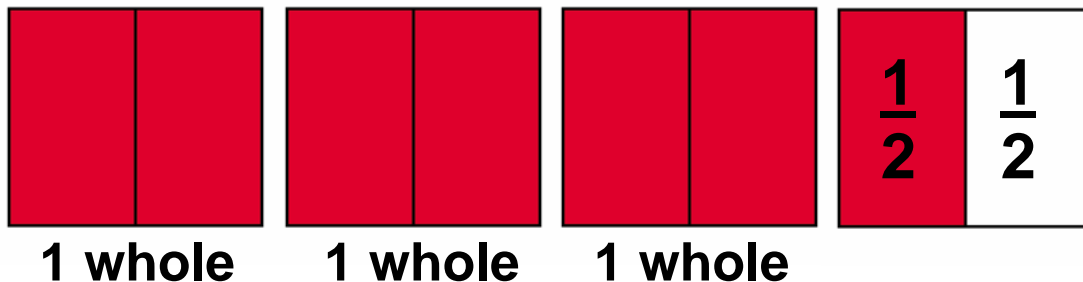
How many halves are colored?

The answer is 7.

So there are seven halves, or $\frac{7}{2}$

Mixed Numbers

Improper fractions can also be written as mixed numbers.



How many whole blocks are colored?

The answer is 3.

So there are three wholes and one half, or $3\frac{1}{2}$