

Fractions

Numerator

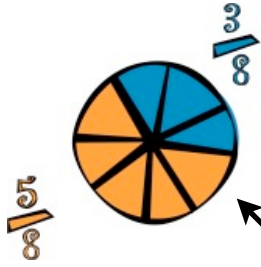
$\frac{7}{8}$

Denominator

The number on the bottom of the fraction shows the total number of pieces that make up the whole.

The number on the top of the fraction shows the total number of those pieces we are talking about.

A Fraction is part of an entire object.



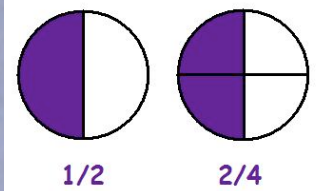
$$\frac{3}{8} + \frac{5}{8} = \frac{8}{8} \text{ or } 1$$



two sixths = one third

Fractions That Are Equal

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



Combinations of Fractions that Equal 1

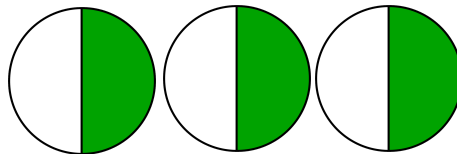
Adding Fractions

Less than 1



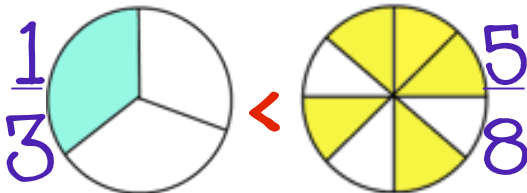
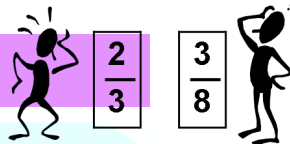
$$\frac{1}{2} + \frac{1}{3} = \frac{5}{6}$$

More than 1

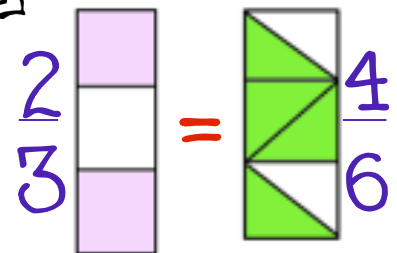


$$\frac{1}{2} + \frac{1}{2} + \frac{1}{2} = \frac{3}{2}$$

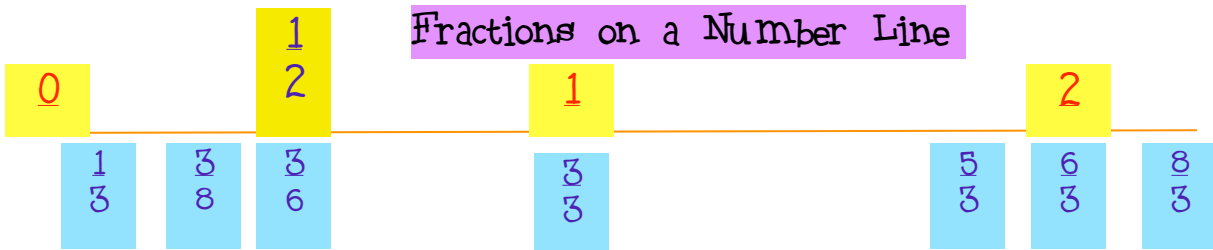
Comparing Fractions



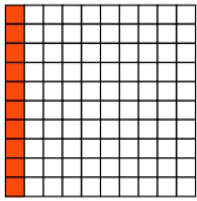
$$\frac{3}{4} > \frac{2}{5}$$



Fractions on a Number Line



Decimals

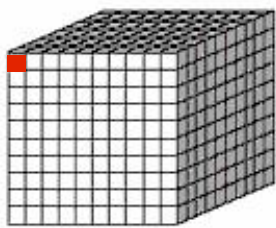
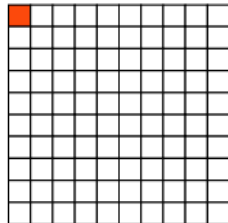


$\frac{1}{10}$

one tenths

$\frac{1}{100}$

one hundredths

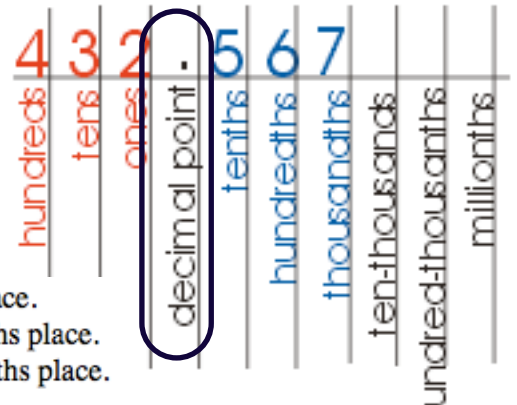


$\frac{1}{1000}$

one thousandths

Decimal means 10, and our number system is based on tens

Place Value of Decimals

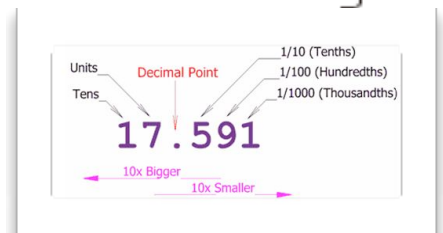


The 5 is in the tenths place.
The 6 is in the hundredths place.
The 7 is in the thousandths place.

Combinations of Decimals that Equal 1

$$0.89 + 0.11 = 1$$

$$0.55 + 0.45 = 1$$



Adding Decimals

Line up the decimal points...

$$\begin{array}{r} 3.21 \\ + 4.5 \\ \hline 7.71 \end{array}$$

and just drag that decimal point straight down!

Add as usual!

Line up the decimal points...

$$\begin{array}{r} 5.649 \\ + 39.27 \\ \hline 44.919 \end{array}$$

Carry (regroup) if you need to!

Comparing Decimals

Line up the decimal points

	tenths	hundredths	thousandths
.430			
.456			
.564			
.43			

Adding zeros after the last digit to the right of a decimal does not change the value

Circle the decimal that is greater.

Your Turn!

0.430
0.403
0.43

Step 1
Compare the ones.
4.738
same
4.735

Step 2
Compare the tenths.
4.738
same
4.735

Step 3
Compare the hundredths.
4.738
same
4.735

Step 4
Compare the thousandths.
4.738
8 > 2
4.732

4.738 > 4.732