

Chapter 8 Fractions Anchor Charts

WHAT IS A FRACTION?

A number that shows equal parts of a whole or set.

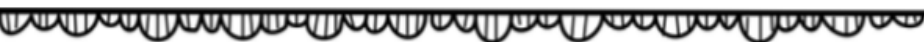
$$\frac{3}{4}$$

Numerator

names the parts being identified or counted

Denominator

names the TOTAL number of parts



A fraction must have equal parts



EQUAL

UNEQUAL

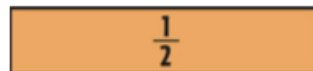
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WHAT IS A UNIT FRACTION?

A fraction with a NUMERATOR of one



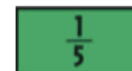
$$\frac{1}{2}$$



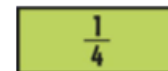
$$\frac{1}{8}$$



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



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



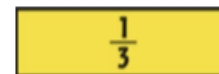
$$\frac{1}{10}$$



$$\frac{1}{16}$$



$$\frac{1}{3}$$



$$\frac{1}{12}$$



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WAYS TO REPRESENT FRACTIONS

Parts of a
Whole



What fraction of
the whole is
shaded?

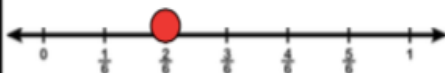


Parts of a
Set



What fraction of
the set is shaded?

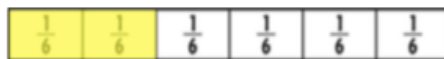
Number
Line



What point on the number
line represents $\frac{2}{6}$?

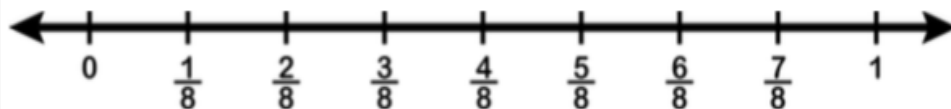
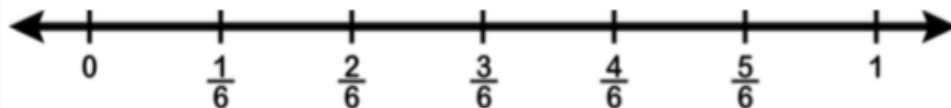
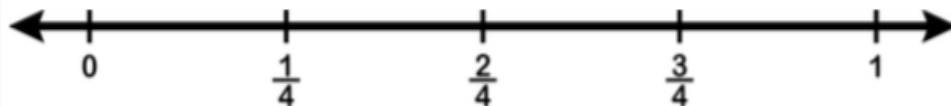
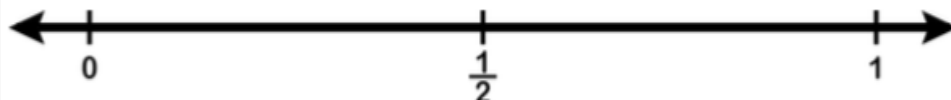
$\frac{2}{6}$

Fraction
Strips, Bars,
or Circles



What fraction of the bar is
shaded?

FRACTIONS ON NUMBER LINES



Chapter 9 Fractions Anchor Charts

Comparing Fractions

All fractions have value. You can compare two or more fractions using the following symbols.

Greater Than >	Less Than <	Equal To =
------------------------------------	---------------------------------	-----------------------------

Remember these rules when comparing fractions!

Same Numerator	Same Denominator
$\frac{3}{4} > \frac{3}{6}$ The smaller denominator is the greater fraction.	$\frac{3}{5} < \frac{4}{5}$ The larger numerator is the greater fraction.

Different Numerators and Denominators

If you are comparing two fractions with different numerators and denominators, find equivalent fractions with the same denominator.

$$\frac{12}{20} = \frac{4}{5} \times \frac{3}{5} > \frac{2}{4} \times \frac{5}{5} = \frac{10}{20}$$

3/5 is greater than 2/4 because when you multiply to get the common denominator of 20, 12 is greater than 10.

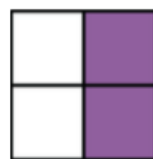
You can also use the butterfly method. Cross multiply and then compare the products. The larger product is the side of the greater fraction.

$$3 \times 4 = 12 \quad \frac{3}{5} > \frac{2}{4} \quad 5 \times 2 = 10$$

12 is greater than 10 so 3/5 is greater than 2/4.

COMPARING FRACTIONS

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



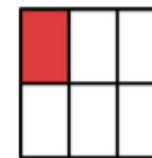
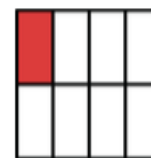
Common Denominators

If both your denominators are the same, it means you're working with pieces that are the same size.

Common Numerators

If both your numerators are the same, it means you're working with the same number of pieces.

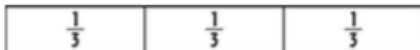
$$\frac{1}{8} \quad \frac{1}{6}$$



WAYS TO COMPARE FRACTIONS

Fraction Bars

Color the fraction bars to represent each fraction.



Number Lines

Mark each fraction on the number line.

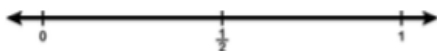


Which is greater?

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

Which fraction is closer to one?

Use $\frac{1}{2}$ as a benchmark



Is two-thirds greater or less than one-half?

Is one-sixth greater or less than one-half?

Find Common Denominators

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

$$\frac{1}{6} \times 1 = \frac{1}{6}$$

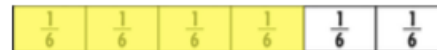
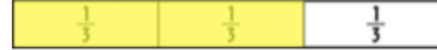
Multiply the numerator and the denominator by the same number to get to a common denominator.

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FINDING EQUIVALENT FRACTIONS

Fraction Bars

Color the fraction bars to represent each fraction.



Number Lines



Each number line must be the same length so they represent the same whole.

Make sure to line up the pieces correctly.

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

Area Models



Make sure the models are the same size so they represent the same whole.

Find Common Denominators

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

$$\frac{1}{6} \times 1 = \frac{1}{6}$$

Multiply the numerator and the denominator by the same number to get to a common denominator.

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