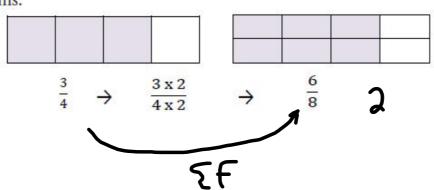
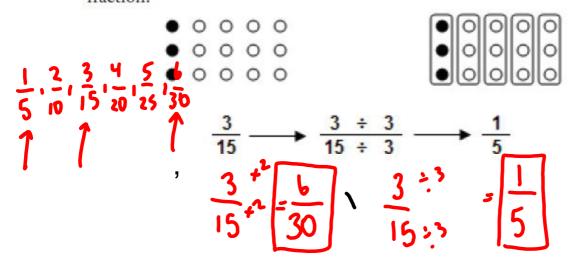
Multiplication is used to increase both the numerator and denominator by the same number in order to create an equivalent fraction with larger terms.



Division is used to reduce both the numerator and denominator to simplify a fraction written in larger terms to a smaller equivalent fraction.



When comparing fractions, we can use both methods to compare fractions

If given $\frac{1}{2}$ and $\frac{1}{3}$ use concrete and pictorial representations.

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

They should conclude that $\frac{1}{2}$ is larger than $\frac{1}{3}$

compare two fractions, such as $\frac{2}{5}$ and $\frac{1}{4}$, by creating equivalent fractions

having the same denominator.



They should conclude that $\frac{8}{20} > \frac{5}{20}$ and therefore, $\frac{2}{5} > \frac{1}{4}$

imestables

Let's find out which fraction is
larger by Comparing denominators and
Using the pattern Method * Create fractions
until you have the

Some denominator!

Now We Compare

1: 2 3 4 5
20

because 8 is bigger than 5
20

1

$$\frac{1}{8}: \frac{2}{16}, \frac{3}{24}, \frac{4}{32}, \frac{5}{40}, \frac{6}{48} = \frac{7}{56}, \frac{8}{64}$$

$$\frac{3}{7}: \frac{6}{14}, \frac{9}{21}, \frac{12}{28}, \frac{15}{35}, \frac{18}{42}, \frac{21}{49}, \frac{24}{56}$$

$$\frac{24}{56}: 5 | \text{arger Han} \frac{7}{56}$$

7

Solve the following word problems:

You are given 10 m of string to fly a kite. Would you prefer to use $\frac{4}{10}$ of the string or $\frac{3}{5}$ of the string to fly your kite? Explain your choice

We have 10 m of String I Want 10 os my denominator in both fractions.

When I get the Same denominator, I

Can Compare both fractions.

6 is larger than $\frac{4}{10}$. I would prefer to

Use $\frac{6}{10}$ or $\frac{3}{5}$ of the String

Ellen has two birthday cakes that are the same size. One is chocolate and one is vanilla. The boys ate $\frac{2}{3}$ of the chocolate cake. The girls ate $\frac{3}{4}$ of the vanilla cake. Ask students: Which group ate more cake?

Boys $\frac{2}{3}$: $\frac{4}{5}$, $\frac{6}{9}$, $\frac{8}{12}$ of the vanilla cake. Ask students: Which group ate more cake?

Force you can Compare the numerators.

Girls $\frac{3}{4}$: $\frac{6}{8}$, $\frac{9}{12}$, $\frac{12}{15}$ of is larger than $\frac{8}{12}$.

The girls ate more cake.

Use Multiplication or Division to compare the following fractions:

a)
$$\frac{3}{4}$$
 and $\frac{7}{8}$

7 is larger than
$$\frac{1}{8}$$

OR

7 is bigger than $\frac{3}{4}$

b)
$$\frac{4}{10}$$
 and $\frac{10}{14}$

$$\frac{4}{10} : \frac{8}{20}, \frac{12}{30}, \frac{1L}{40}, \frac{20}{50}, \frac{24}{60}$$

$$\frac{28}{70} : \frac{20}{70} : \frac{30}{10} : \frac{40}{70} : \frac{50}{70}$$

$$\frac{10}{10} : \frac{20}{22}, \frac{30}{42}, \frac{40}{56} : \frac{50}{70}$$

$$\frac{10}{10} : \frac{20}{22}, \frac{30}{42}, \frac{40}{56} : \frac{50}{70}$$

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