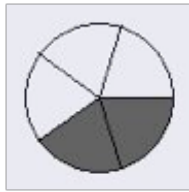


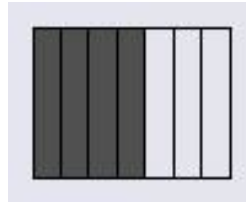
From the video, the Denominator represents how many equal pieces the cake is cut into and the numerator represent how many pieces the number would take.

Fractions are splitting a number (whole) into equal pieces.

What fraction is shaded grey?



$$\frac{3}{5}$$



$$\frac{4}{7}$$

In the video, the sheriff discovers that  $\frac{2}{3} = \frac{4}{6}$

Two fractions that equal one another but are written in a different form are called Equivalent Fractions.

We can find equivalent fractions by Multiply or Divide the numerator AND denominator by a Whole number.

$$\frac{6}{10} \cdot \frac{2}{2} = \frac{12}{20}$$

$$\frac{6}{10} \div \frac{2}{2} = \frac{3}{5}$$

Name 2 equivalent fractions for the following

$$\frac{4}{12}$$

$$\frac{3}{7}$$

Find the value of x

$$\frac{x}{20} = \frac{4}{4 \cdot 5} \quad x = 16$$

$$\frac{2 \cdot 3}{7 \cdot 5} = \frac{6}{x} \quad x = 21$$

## Adding and Subtracting Fractions

When adding and subtracting fractions, the first thing to do is find the Least common denominator, or the smallest number that both denominators go into.

Find the LCD for the following fractions:

12

4.  $\frac{2}{3}$  and  $\frac{5}{12}$

20  
 $\frac{1}{4}$  and  $\frac{2}{5}$

What is multiplied by the \_\_\_\_\_ has to be multiplied by the \_\_\_\_\_

Then keep the denominator and perform the given operation on the numerators.

A fraction is in \_\_\_\_\_ when the greatest common factor of the numerator and denominator is one.

Always make sure to simplify to lowest terms!

Add the following Fractions: ~~X~~ When you + or - Fractions

$$2. \frac{2}{3} + \frac{5}{6} + \frac{4}{6} = \frac{9}{6}$$

ONLY + or - Numerators.  
DO NOT + or - Denominators.



$$2. \frac{5}{4} + \frac{-3}{8} + \frac{10}{8} = \frac{7}{8}$$



$$\frac{1}{3} + \frac{-4}{18}$$

Subtract the following Fractions:

$$\frac{3}{5} - \frac{3}{10}$$



$$\frac{5}{4} - \frac{1}{3}$$



$$\frac{2}{3} + \frac{5}{12} - \frac{1}{6}$$

When multiplying and dividing fractions we **DO**  
**NOT** need a LCD

To multiply fractions, multiply the Numerators together  
 and the Denominators together.

After multiplying straight across, always look to see if you can  
Simplify/reduce

Multiply the following fractions

$$\frac{2}{3} \cdot \frac{3}{4} = \frac{6}{12} = \frac{1}{2}$$



$$\frac{4}{7} \cdot \frac{1}{3} = \frac{4}{21}$$

$$\frac{2}{1} \cdot \frac{3}{5}$$



$$\frac{-2}{3} \cdot \frac{5}{8}$$

To divide two fractions, leave the first fraction as it is and then multiply by the reciprocal of the second fraction. Then look to see if you can simplify/reduce.

Flip

Divide the following fractions

$$\frac{7}{2} \div \frac{2}{3} \Rightarrow \frac{7}{2} \cdot \frac{3}{2} = \frac{21}{4}$$



$$\frac{-3}{4} \div \frac{5}{8} \quad \frac{2}{3} \div \frac{4}{1} \Rightarrow \frac{2}{3} \cdot \frac{1}{4}$$



$$\frac{5}{2} \div \frac{1}{6}$$

When multiplying or dividing a whole number by a fraction,  
make the whole number a \_\_\_\_\_ by making  
the denominator a \_\_\_\_\_

$$6 \cdot \frac{3}{4}$$



$$4 \cdot \frac{4}{7}$$



$$\frac{3}{5} \cdot \frac{1}{3} \div 2$$