"I Can Divide Fractions and Simplify my Answer into Simplest Terms."

Division Properties with Fractions

Division roperties with tractions
Remember from the first day
A number • a proper fraction is than the original number. (less than 1)
A number • an improper fraction or mixed number is than the original number. (greater than 1)
Without dividing, tell which expression will result in a quotient
greater than $\frac{1}{2}$ and which will result in a quotient less than $\frac{1}{2}$. Explain how you know.
Expression 1
$\frac{1}{2} \div \frac{4}{3}$
Expression 2
$\frac{1}{2} \div \frac{3}{4}$
Expression 3
$\frac{1}{2} \div 1\frac{1}{4}$
What can you conclude about dividing fractions?
A number ÷ a proper fraction is than the original number. (less than 1)

A number ÷ an <u>improper fraction</u> or <u>mixed number</u> is ______ than the original number. (greater than 1)

Division Properties with Fractions

Remember from the first day ...

A number • a proper fraction is
$$\frac{3}{3} = \frac{3}{3} = \frac{3}{3} = \frac{6}{3} = \frac{2}{3}$$

(less than 1)

Without dividing, tell which expression will result in a quotient greater than $\frac{1}{2}$ and which will result in a quotient less than $\frac{1}{2}$. Explain how you know.

- Improper Expression 1

$$\frac{1}{2} \cdot \frac{3}{4} = \frac{3}{8}$$

Proper Expression 2

$$\frac{1}{2} \div \frac{3}{4}$$

$$\frac{1}{2} \cdot \frac{4}{3} = \frac{4}{7} = \frac{2}{3}$$

· Mixed #

$$\frac{1}{2} \div \frac{5}{4} = \frac{1}{2} \cdot \frac{4^2}{5} = \frac{2}{5}$$

What can you conclude about dividing fractions?

A number + a proper fraction is biqqe ___ than the original number. (less than 1)

A number ÷ an improper fraction or mixed number is Smaller than the original number. (greater than 1)