

Lesson : Dividing and mixed numbers

SWBAT: Divide fractions and mixed numbers together

Reciprocals:

- When you switch the _____ of a fraction. Flipping the fraction upside down.
- The Reciprocal of $\frac{2}{3}$ is $\frac{3}{2}$

Find the reciprocal of: a. $\frac{3}{4}$ b. 7 c. $5\frac{3}{4}$

Dividing fractions:

- In order to divide fractions you need to _____ the reciprocal.
- To remember this, think.... Keep, Change, Flip!
- Keep the first fraction the same, change the sign to multiplication and flip the second fraction (find the reciprocal).

Ex: $\frac{5}{10} \div \frac{5}{6} = \frac{5}{10} \cdot \frac{6}{5} = \frac{30}{50} = \frac{3}{5}$

Once you change the problem to multiplication, you just follow the rules of multiplying fractions. You may now cross simplify if you can.

Divide the following fractions:

① $\frac{9}{16} \div \frac{3}{4}$

② $\frac{4}{5} \div \frac{1}{3}$

③ $\frac{5}{6} \div 5$

Dividing mixed numbers:

- You first have to turn them into _____! After you do that, just _____ like normal.

Ex: $2\frac{2}{3} \div 3\frac{1}{4} = \frac{8}{3} \div \frac{13}{4}$

a. $3\frac{1}{3} \div 2\frac{2}{9}$

b. $1\frac{6}{12} \div 1\frac{9}{15}$