4-8 Divide Mixed Numbers

KEEP, CHANGE, FLIP!

Dividing Mixed Numbers:

Steps:

- 1) Change all mixed numbers into improper fractions
 - a. Multiply denominator by the whole number then add numerator. Put answer over original denominator.
- 2) Keep the first fraction the same
- 3) Change the DIVISION sign to a MULTIPLICATION sign
- 4) Flip the second fraction upside down (the reciprocal)
- 5) Simplify by factors (if possible)
- 6) Multiply numerators together
- 7) Multiply denominators together
- 8) Simplify and/or change improper fraction back into a mixed number.

Examples:

$$6^{\frac{2}{5}} \div 2^{\frac{2}{7}}$$

$$\frac{32}{5} \div \frac{16}{7}$$

$$\begin{array}{c}
 1 \frac{1}{9} \div 6 \frac{2}{3} \\
 10 \div 20 \\
 7 \div 3 = 40 \\
 7 \times 3 = 40 \\
 7 \times 3 = 40
 \end{array}$$

$$8\frac{1}{13} \div 5$$

$$\frac{105}{13} \div \frac{5}{1} = \frac{21}{13} \times \frac{1}{5} = \frac{21}{13} \div \frac{18}{13}$$