Dividing Fractions Notes

Dividing a fraction by a fraction

- The first fraction stays the same (Keep it!)
- Change the division symbol to a multiplication symbol!
- Flip the second fraction upside down (write the reciprocal)!
- The problem is now a multiplication problem, so simply follow the steps for multiplying fractions.

Find the quotient. Make sure to simplify your answers.

1) \( \frac{1}{2} \div \frac{3}{8} \)

2) \( \frac{5}{6} \div \frac{2}{3} \)
Division with a fraction and a mixed number
- Change mixed numbers into improper fractions.
- The first fraction stays the same (Keep it!)
- Change the division symbol to a multiplication symbol!
- Flip the second fraction upside down (write the reciprocal)!
- The problem is now a multiplication problem, so simply follow the steps for multiplying fractions.

Find the quotient. Make sure to simplify your answers.

3) \(\frac{2}{5} \div 1\frac{3}{4}\)
4) \(6\frac{2}{3} \div \frac{1}{9}\)

Division with a fraction and a whole number
- Write whole numbers as fractions.
  - The whole number becomes the numerator
  - 1 will be the denominator
- The first fraction stays the same (Keep it!)
- Change the division symbol to a multiplication symbol!
- Flip the second fraction upside down (write the reciprocal)!
- The problem is now a multiplication problem, so simply follow the steps for multiplying fractions.

Find the quotient. Make sure to simplify your answers.

6) \(8 \div \frac{2}{5}\)
7) \(\frac{4}{9} \div 2\)

Let’s try a word problem! (Remember your NOSIE 😊)

8) Each costume for the school show needs yards of material. How many costumes can be made from a 30 yard bolt of material?

**QUESTIONS**