

Divide Fractions

- Multiplication and division are: opposite operations
- Change: Mixed numbers into improper fractions
- Reciprocal: "Flip" of a fraction

Examples:	number	reciprocal
	$\frac{2}{3}$	$\frac{3}{2}$
	$\frac{1}{7}$	$\frac{7}{1}$
	$\frac{5}{7}$	$\frac{7}{5}$
	$1\frac{1}{6} = \frac{7}{6}$	$\frac{6}{7}$

Stay Change Flip
1st fraction $\div$ to $\times$ 2nd fraction

Examples:

$$1. \frac{2}{3} \div \frac{8}{9} = \frac{2}{3} \times \frac{9}{8} = \frac{3}{4}$$

$$2. \frac{10}{11} \div \frac{5}{7} = \frac{10}{11} \times \frac{7}{5} = \frac{14}{11} = 1\frac{3}{11}$$

$$3. \frac{15}{22} \div \frac{10}{11} = \frac{15}{22} \times \frac{11}{10} = \frac{3}{4}$$

$$4. \frac{35}{12} \div \frac{5}{24} = \frac{35}{12} \times \frac{24}{5} = \frac{14}{1} = 14$$

$$5. \left(\frac{17}{80}\right) \div \left(\frac{15}{44}\right) = \frac{187}{300}$$

$$6. \left(\frac{101}{39}\right) \div \left(\frac{7}{13}\right) = 4\frac{12}{21}$$

For each of the following, is it better to do the question by hand or with a calculator???

$$7. \frac{88}{15} \div \frac{132}{55} \text{ Calculator} = 2\frac{4}{9}$$

$$8. \frac{5}{4} \div \frac{5}{3} \text{ Hand} = \frac{3}{4}$$

$$9. \frac{21}{100} \div \frac{77}{25} \text{ Calculator} = \frac{3}{44}$$

$$10. \frac{1}{7} \div \frac{1}{7} \text{ Hand} = \frac{7}{7} = 1$$

HOMEWORK

Worksheet - Dividing Fractions