

A6 Dividing Fractions

Note Title

28/04/2015

- ★ When you are dividing fractions, you must:
- convert to improper or make whole # a frac.
 - **FLIP** the second fractions denominator and numerator
 - change \div sign to multiply. (check for cross cancelling when multiplying).
 - num \times num \neq den \times den.
 - Reduce and convert to proper (if needed)

Examples:

① $\frac{1}{2} \div \frac{2}{1} = \frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

nothing to cross cancel.

after Flip then

② $8 \div 3\frac{3}{4} = \frac{8}{1} \div \frac{15}{4} = \frac{8}{1} \times \frac{4}{15} = \frac{32}{15} = 2\frac{2}{15}$

change

③ $3\frac{1}{3} \div 2\frac{1}{2} = \frac{10}{3} \div \frac{5}{2} = \frac{10}{3} \times \frac{2}{5} = \frac{20}{15} = 1\frac{5}{15} = 1\frac{1}{3}$

change

cross cancelling $\frac{10}{3} \times \frac{2}{5} = \frac{4}{3} = 1\frac{1}{3}$

④ $4\frac{2}{5} \div 1\frac{2}{10} = \frac{22}{5} \div \frac{12}{10} = \frac{22}{5} \times \frac{10}{12} = \frac{220}{60} = \frac{22}{6} = 3\frac{4}{6} = 3\frac{2}{3}$

change

cross cancelling $\frac{22}{5} \times \frac{10}{12} = \frac{22}{6}$

Quiz Thursday /15

10 Mult. Choice like worksheets.

4 short Ans like worksheet

1 Word Problem.

$$\frac{3}{4} \div \frac{1}{5} = \frac{3}{4} \times \frac{5}{1} = \frac{15}{4}$$