6.1 Multiplying Fractions & Whole Numbers
6.2 Dividing a Fraction by a Whole Number

February 22, 2016   1:03 PM

MULTIPLYING

$$\frac{3}{4} \times \frac{1}{2} = \boxed{\frac{3}{8}}$$

Ex #1

$$\frac{3}{4} \times \boxed{2} \Rightarrow \frac{3}{4} \times \boxed{\frac{2}{1}} = \frac{6}{4} = \frac{3}{2} = \boxed{1\frac{1}{2}}$$

whole # by itself ⇒ fraction over 1 "

DIVIDING

When dividing two fractions, the 2nd fraction flips (reciprocal) and division changes to multiplication

Ex.#2

$$\frac{3}{4} \div \boxed{\frac{1}{2}}$$

$$= \frac{3}{4} \times \boxed{\frac{2}{1}} = \frac{6}{4} = \frac{3}{2} = \boxed{1\frac{1}{2}}$$

Ex.#3

a) $\frac{3}{4} \div 4$

$$\frac{3}{4} \div \frac{4}{1}$$

$$\frac{3}{4} \times \frac{1}{4} = \boxed{\frac{3}{16}}$$

b) $6 \div \frac{1}{2}$

$$= \frac{6}{1} \times \frac{2}{1}$$

$$= \frac{12}{1} = \boxed{12}$$

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