Accelerated Math Notes (Section 3.3) Multiplying Rational Numbers

To multiply fractions and mixed numbers:

* make sure all numbers are written in fraction form.

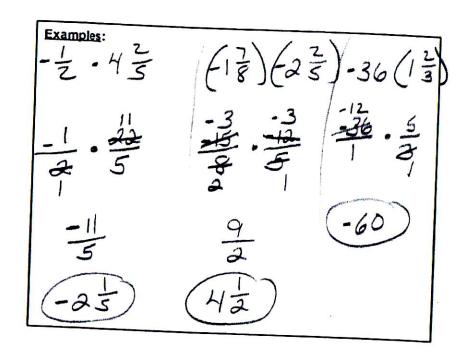
$$4\frac{2}{5} = \frac{22}{5}$$

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

$$-6 = \frac{-6}{1}$$

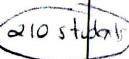
* give yourself plenty of room above and below the problem 2

- * look for common factors to simplify fractions
- * multiply numbers in numerator
- * multiply numbers in denominator
- * Check to be sure answer is in simplest form



Application Problems that involve multiplying rational numbers

Three-fifths of LMS students ride the bus. If there are 350 LMS students, how many ride the bus?



Each day Sue practices piano $\frac{1}{2}$ times as much as Meg who

practices $\frac{3}{4}$ hour each day. How many hours does Sue practice

each day?

Evaluate if
$$a = \frac{3}{4}$$
 $b = -4\frac{1}{2}$ $c = -\frac{2}{9}$

$$abc^{2}$$

$$(\frac{3}{4})(-4\frac{1}{2})(-\frac{2}{9})^{2}$$

$$(-\frac{1}{4})(\frac{3}{4}, \frac{1}{4})$$

$$(-\frac{1}{4})(\frac{3}{4$$