



STUDENT \_\_\_\_\_

GROUP \_\_\_\_\_

INSTRUCTOR \_\_\_\_\_

DATE \_\_\_\_\_

**Math Lab Lesson #3 Group Activity:**  
Introduction to Rational Number

$$\frac{A}{B} = \frac{C}{x}$$

Use the clues in the problems below to find the value of  $x$ .

★ **Clue #1:** In the past two and a half years, Gnarly the dog gained an average of  $\frac{1}{6}$  pound each month.

Today, Gnarly weighs 20 pounds, but two and a half years ago he weighed  $A$  pounds.





★ **Clue #2:** A cake recipe used  $\frac{5}{2}$  cups of sugar. The cake is divided into 10 pieces. There is  $D$  cups of sugar in 1 pieces of this cake, and  $B = 12D$ .

★ **Clue #3:** A quality control manager at a factory selects 2 lightbulbs at random for inspection out of every 40 lightbulbs produced. At this rate, if the factory produces 100 lightbulbs then  $C$  lightbulbs will be inspected.