



STUDENT _____ GROUP _____

INSTRUCTOR _____ DATE _____

Math Lab Lesson #5 Classwork:

Working with Fractions Part II

★ Video#1: Taking Parts of a Whole

★ **Example:** On average, $\frac{2}{3}$ of people in a grocery store buy an item that is on sale. 150 people shopped at this grocery store yesterday and 36 people shopped today. Over these two days, how many people bought an item that was on sale?



★ **Example:** Theo ate one-third of a cookie. Then Gnarly ate half of what was left. After this, what fraction of the original cookie is left?



→ 1. Approximately 76 people work at SEO, and $\frac{3}{4}$ of them are over 40 years old.

a) How many people at SEO are over 40 years old?

b) How many people at SEO are under 40 years old?

c) Answer the question in b) above using a different calculation.

2. Anesha spent two-fifths of the money in her wallet on lunch. Then, she spent two-thirds of what was left on coffee. After this, what fraction of the original amount of money was left in her wallet?



★ Video#2: Algebra with Fractions

★ **Example:** If $\frac{7}{x} = 5$, then what is the value of $\frac{x}{7}$?

★ **Example:** If $\frac{4}{3}x = \frac{3}{7}$, then what is the value of x ?



→ 1. If $\frac{6}{m} = 4$, then what is the value of $\frac{m}{6}$?

2. a) If $\frac{a}{b} = \frac{1}{m}$, then what is the value of $\frac{b}{a}$?

b) Choose numbers for a , b , and m to make the equation above true. Then check that your answer to “what is the value of $\frac{b}{a}$?” makes sense.

3. Solve for k :

$$\frac{7}{5}k = \frac{3}{10}$$