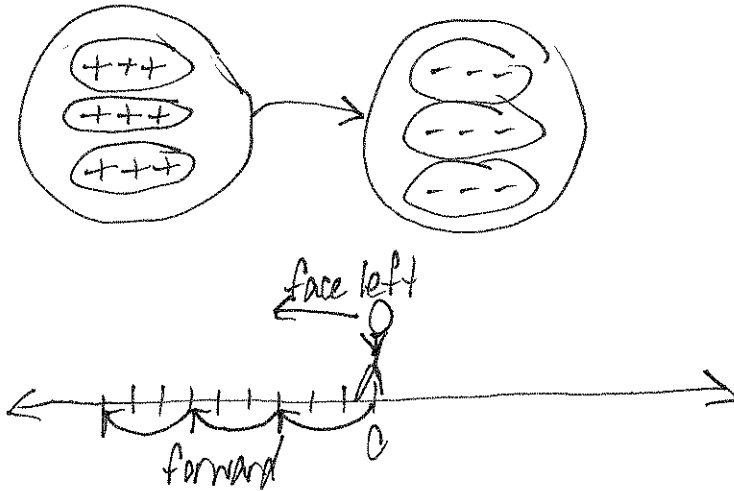


Name: Key

Math 221: Quiz 9 - 6/17/15

Solve the following problems. Please use a pencil if possible.

1. Represent $(-3 \times 3) = -9$ using both the chip model and the number line model. [25 Points Each]



2. Reduce the fraction $\frac{96}{168}$ by finding the GCD and using this to simplify. Your notation for how the simplification step is done should be similar to the one used in class and not indicate any sort of fraction multiplication or division. You should not have to use the fundamental law of fractions more than once if you use the actual GCD. [50 Points]

$$96 = 2^5 \cdot 3$$

$$168 = 2^3 \cdot 3 \cdot 7$$

$$\begin{aligned} \text{GCD}(96, 168) &= 2^3 \cdot 3 \\ &= 24 \end{aligned}$$

$$\frac{96}{168} = \frac{4 \cdot 24}{7 \cdot 24} = \boxed{\frac{4}{7}}$$