



Fractions and Whole Numbers

Let's work with fractions and whole numbers on the number line.

Warm-up

Number Talk: Divide by 4

Find the value of each expression mentally.

$$\cdot 12 \div 4$$

$$\cdot 24 \div 4$$

$$\cdot 60 \div 4$$

$$\cdot 72 \div 4$$

Activity 1

Fractions Located at Whole Numbers

1. Locate and label your assigned fractions on the number line. Be prepared to explain your reasoning.



2. List all the fractions that were located at a whole number on all 3 number lines that your group labeled.

a. $\frac{1}{2}, \frac{2}{2}, \frac{3}{2}, \frac{4}{2}, \frac{5}{2}, \frac{6}{2}, \frac{7}{2}, \frac{8}{2}, \frac{9}{2}, \frac{10}{2}$

b. $\frac{1}{3}, \frac{2}{3}, \frac{3}{3}, \frac{4}{3}, \frac{5}{3}, \frac{6}{3}, \frac{7}{3}, \frac{8}{3}, \frac{9}{3}, \frac{10}{3}, \frac{11}{3}, \frac{12}{3}$

c. $\frac{1}{4}, \frac{2}{4}, \frac{3}{4}, \frac{4}{4}, \frac{5}{4}, \frac{6}{4}, \frac{7}{4}, \frac{8}{4}, \frac{9}{4}, \frac{10}{4}, \frac{11}{4}, \frac{12}{4}$

3. What patterns do you see in all 3 labeled number lines?



Activity 2

Locate 1 on the Number Line

1. Locate and label 1 on each number line. Be prepared to explain your reasoning.

a.



b.



c.



d.



2. How could you locate 2 on the number lines in the previous problem?