

Lesson 8: 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.

- $12 \div 4$

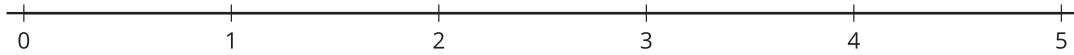
- $24 \div 4$

- $60 \div 4$

- $72 \div 4$

8.1: Fractions Located at Whole Numbers

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



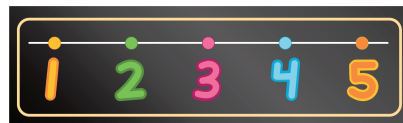
a. $\frac{1}{2}, \frac{2}{2}, \frac{3}{2}, \frac{4}{2}, \frac{5}{2}, \frac{6}{2}, \frac{7}{2}, \frac{8}{2}, \frac{9}{2}, \frac{10}{2}$

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

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

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

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



8.2: 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?