

# Module 3 Lesson 3

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I will be able to compare and order fractions, and place fractions on a number line!

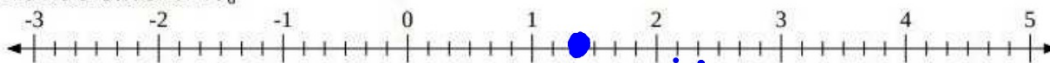
## Types of Fractions

Proper Fraction	Improper Fraction	Mixed Number
$\frac{\text{Small}}{\text{large}}$	$\frac{\text{large}}{\text{Small}}$	whole number and proper fraction
$\frac{1}{2}$	$\frac{5}{2}$	$1\frac{2}{5}$

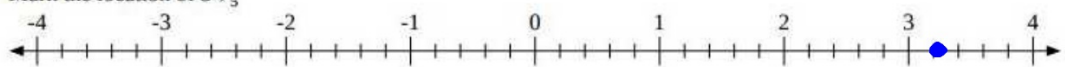
# Fractions on a Numberline

$$5\frac{5}{2} = 7\frac{1}{2}$$
$$\frac{5}{2} = 2\frac{1}{2}$$

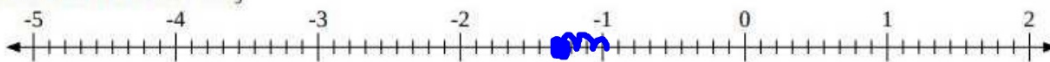
Mark the location of  $1\frac{2}{6}$



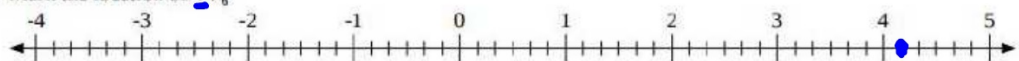
Mark the location of  $3\frac{1}{5}$



Mark the location of  $-1\frac{3}{9}$



Mark the location of  $4\frac{1}{6}$



## Writing an Inequality for Fraction

Method 1: Common Denominator

$$\begin{array}{ccc} 3 \times \frac{-2}{5} & > & \frac{-2 \times 3}{3 \times 5} \\ -\frac{6}{5} & > & -\frac{10}{5} \end{array}$$

Method 2: Butterfly

$$\begin{array}{ccc} \frac{-7}{8} & < & \frac{-1}{2} \\ \boxed{-14} & & \boxed{-8} \end{array}$$

~~$-\frac{7}{8} < -\frac{1}{2}$~~

## Whiteboard Practice

$$\frac{6 \times 2}{6 \times 3}, \quad \frac{2 \times 4}{2 \times 9}, \quad \frac{3 \times 1}{3 \times 6}, \quad \frac{9 \times 1}{9 \times 2}$$

$$-\frac{11}{24}, \quad -\frac{7}{6}, \quad -\frac{11}{12}, \quad -\frac{7}{4}$$

$$\frac{\textcircled{1}}{-12}, \quad \frac{\textcircled{3}}{-8}, \quad \frac{\textcircled{4}}{-3}, \quad \frac{\textcircled{2}}{-9}$$

18, 18, 18, 18

$$-\frac{2}{3}, \quad -\frac{1}{2}, \quad -\frac{4}{9}, \quad -\frac{1}{6}$$

