

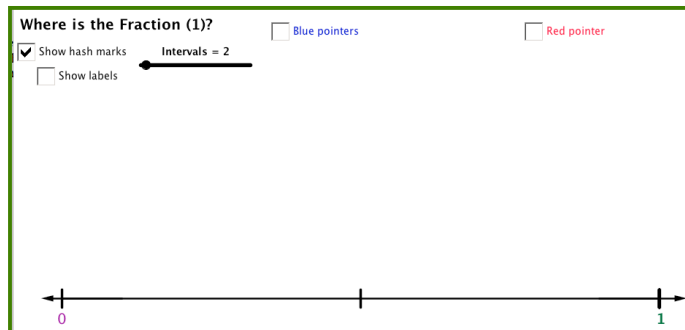
Name: _____
 Class/Block: _____ Date: _____

Exploration: Locating Equivalent Fractions

This exploration incorporates the use of a number line to deepen understanding of fraction concepts. During the activity you will explore the location of fractions as well as their equivalent fractions.

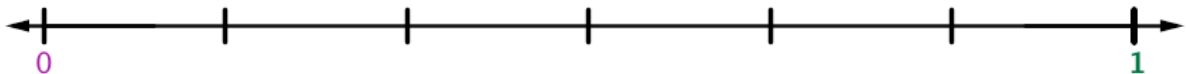
Getting Ready

Launch the “*Where is the Fraction? (1)*” applet. This applet shows a number line from 0 to 1. Notice the *Show hash marks* checkbox is checked and the *Intervals* slider is set to 2.



Part I.

1. Slide the *Intervals* slider to 6.
 - Click on *Show labels* on the applet to see the labels under the number line.
 - Record the fractions below the appropriate hash mark on the number line below.



- Click the *Simplify* check box. Simplify
- Record any additional fractions that describe the same locations.

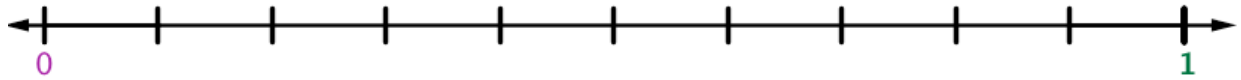
Fraction	Equivalent Fraction (Simplify/reduce to lowest terms)	What number was divided into <u>both</u> the numerator and the denominator to get the simplified fraction?
$\frac{2}{6}$		
$\frac{3}{6}$		
$\frac{4}{6}$		



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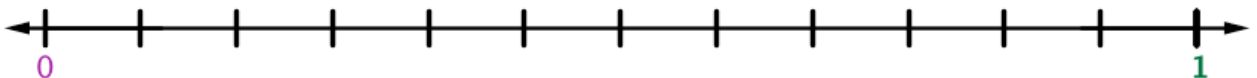
- Un-Click the **Simplify** check box then slide the **Intervals** slider to 10.
 - Click on **Show labels** on the applet to see the labels under the number line.
 - Record the fractions below the appropriate hash mark on the number line below.



- Click the **Simplify** check box.
Record any additional fractions that describe the same locations.

Fraction	Equivalent Fraction (Simplify/reduce to lowest terms)	What number was divided into <u>both</u> the numerator and the denominator to get the simplified fraction?
$\frac{2}{10}$		
$\frac{5}{10}$		
$\frac{8}{10}$		

- Un-Click the **Simplify** check box then slide the **Intervals** slider to 12.
 - Click on **Show labels** on the applet to see the labels under the number line.
 - Record the fractions below the appropriate hash mark on the number line below.



- Click the **Simplify** check box.
Record any additional fractions that describe the same locations.

Fraction	Equivalent Fraction (Simplify/reduce to lowest terms)	What number was divided into <u>both</u> the numerator and the denominator to get the simplified fraction?
$\frac{2}{12}$		
$\frac{3}{12}$		
$\frac{4}{12}$		
$\frac{8}{12}$		



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Part II.

1. Given the following fractions, name at least one equivalent fraction.

<i>Given fraction</i>	<i>Equivalent fraction(s)</i>
$\frac{2}{20}$	
$\frac{5}{20}$	
$\frac{8}{20}$	
$\frac{12}{20}$	
$\frac{16}{20}$	

2. On the number line below, show the **given fraction below** its location and an **equivalent fraction above it**.

