

# **Developing Fractional Reasoning Workbook**

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**Targeted Skills and  
Formative Assessments**

**Fractional Reasoning Program**  
*Free Supplement*



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# ***Developing Fractional Sense***

## ***An Overview***

**Domain 1**

**Domain 1: Understanding a Fraction within the Context of One Whole**

Naming Fractions with Different Models and Counting

Fractions as Part of a Whole

**Domain 2**

**Domain 2: Comparing Fractions with Defined and Undefined Characteristics**

Comparing Fractions

**Domain 3**

**Domain 3: Understands and can Manipulate Change to a Fraction**

Equivalent Fractions and Common Denominators

Mixed Numbers and Improper Fractions

**Domain 4**

**Domain 4: Arithmetic with Fractions**

Addition and Subtraction

Multiplication and Division



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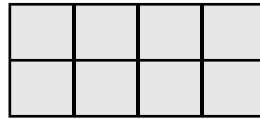
**Skill 1**

**Activity 2**

Identify if each whole is partitioned into equal parts. Write equal or not equal.



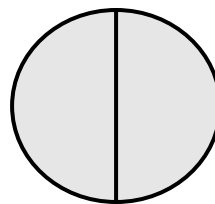
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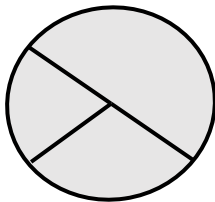
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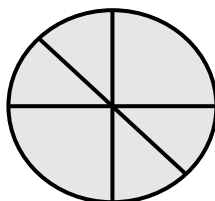
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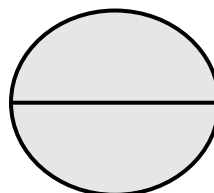
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**Skill 1**

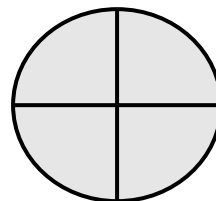
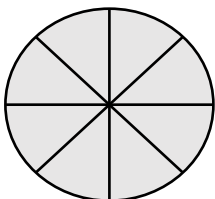
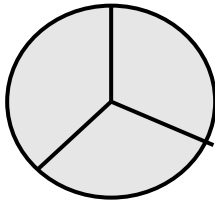
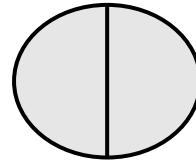
**Activity 2**

Identify how many parts the whole is partitioned into using the correct language.

**WORD BANK: halves, thirds, fourths, fifths, sixths, eighths, whole**



halves

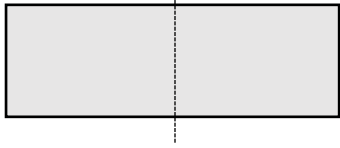


NAME \_\_\_\_\_

**Skill 1**

**Activity 3**

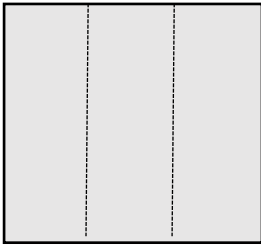
Partition the whole into the number of parts in each box. Trace the lines.



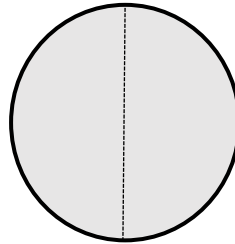
halves



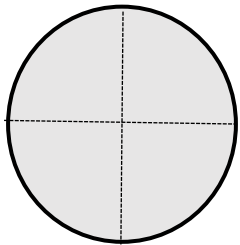
fourths



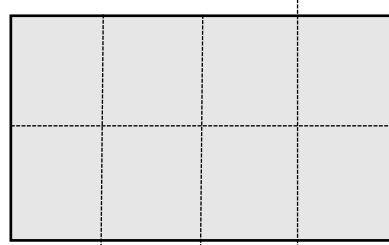
thirds



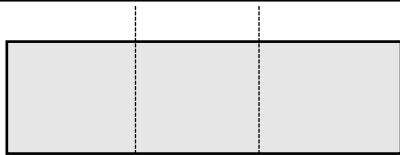
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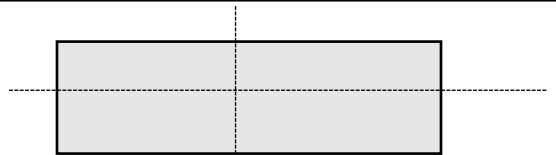
fourths



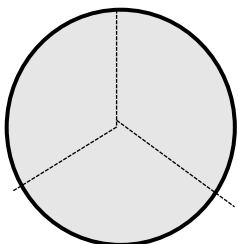
eighths



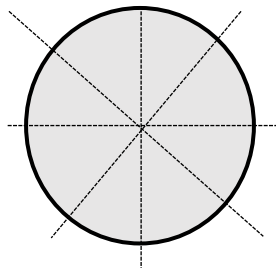
thirds



fourths



thirds



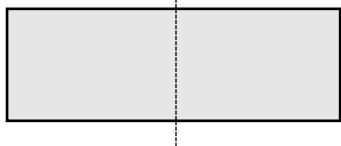
eighths

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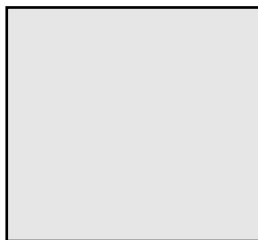
**Skill 1**

**Activity 3**

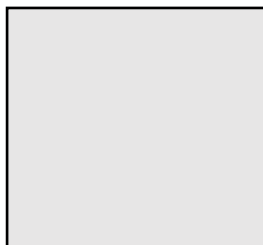
Partition the whole into the number of parts in each box.



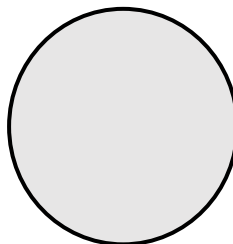
halves



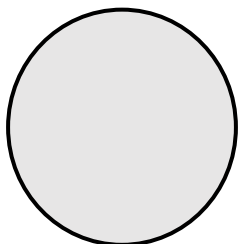
fourths



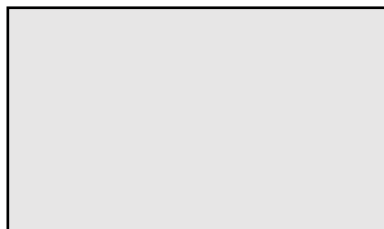
thirds



halves



fourths



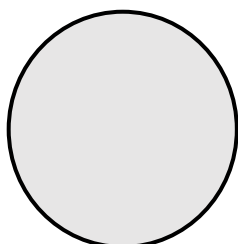
eighths



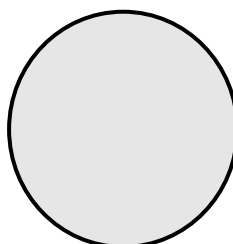
thirds



fourths



thirds



eighths

NAME \_\_\_\_\_

**Skill 1**  
**Activity 4**

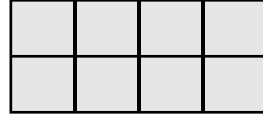
Write the whole with a numerator and denominator..

**3** Numerator = How many did you count

**3** Denominator = What did you count



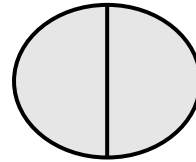
$$\frac{2}{2}$$



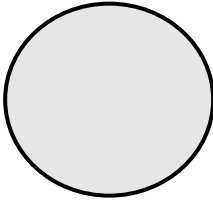
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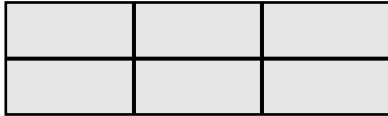
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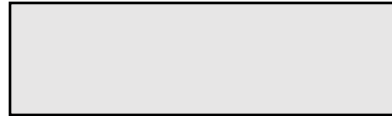
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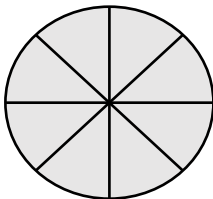
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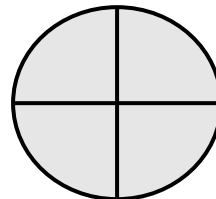
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NAME \_\_\_\_\_

**Skill 1**  
Activity 4

Write each whole with a numerator and denominator.

3 Numerator = How many did you count

3 Denominator = What did you count



1 or  $\frac{4}{4}$



\_\_\_\_\_ or \_\_\_\_\_



\_\_\_\_\_ or \_\_\_\_\_



4. \_\_\_\_\_ or \_\_\_\_\_



5. \_\_\_\_\_ or \_\_\_\_\_



6. \_\_\_\_\_ or \_\_\_\_\_

NAME \_\_\_\_\_

**Skill 1****Activity 4**

Identify the Fraction. Use the shaded parts as the numerator.

**1** Numerator = How many did you count**3** Denominator = What did you count

Numerator \_\_\_\_\_

Denominator \_\_\_\_\_



Numerator \_\_\_\_\_

Denominator \_\_\_\_\_



Numerator \_\_\_\_\_

Denominator \_\_\_\_\_



Numerator \_\_\_\_\_

Denominator \_\_\_\_\_



Numerator \_\_\_\_\_

Denominator \_\_\_\_\_



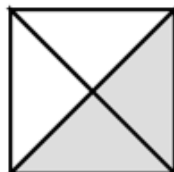
Numerator \_\_\_\_\_

Denominator \_\_\_\_\_



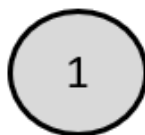
Numerator \_\_\_\_\_

Denominator \_\_\_\_\_

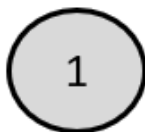


Numerator \_\_\_\_\_

Denominator \_\_\_\_\_



Numerator \_\_\_\_\_



Denominator \_\_\_\_\_



Numerator \_\_\_\_\_

Denominator \_\_\_\_\_

NAME \_\_\_\_\_

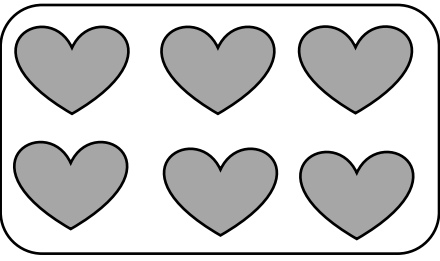
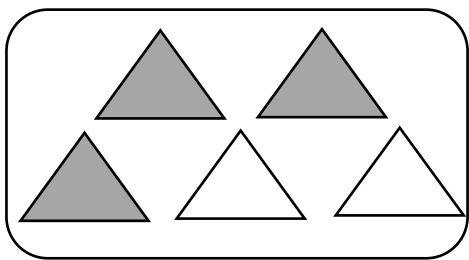
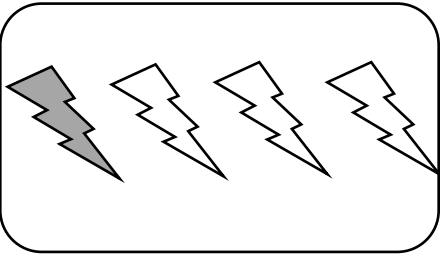
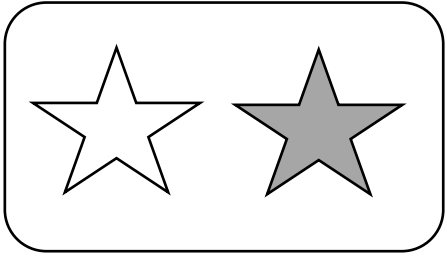
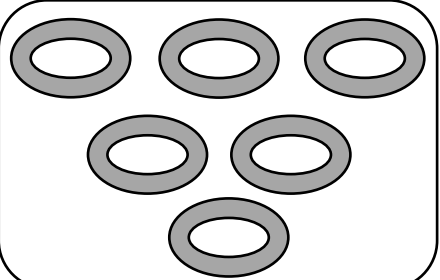
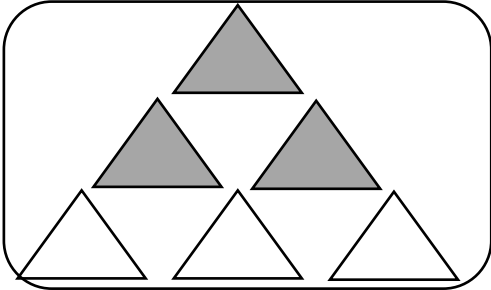
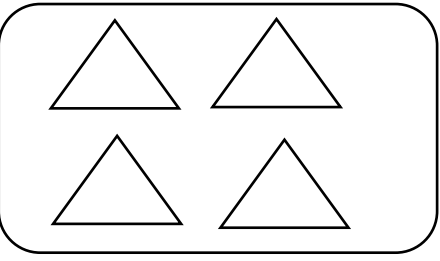
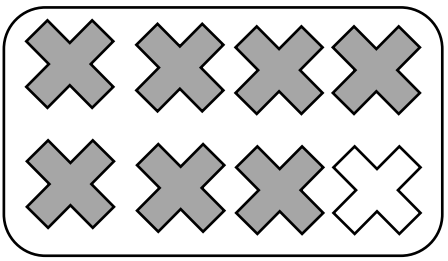
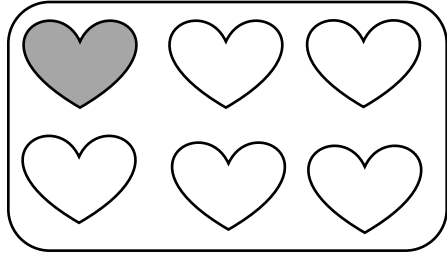
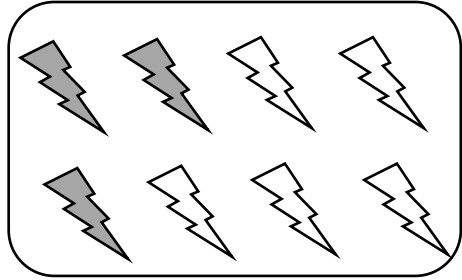
**Skill 1**

**Activity 4**

Identify the fraction of the set that is shaded.

1 Numerator = How many did you count

**3** Denominator = What did you count

	_____		_____
	_____		_____
	_____		_____
	_____		_____
	_____		_____

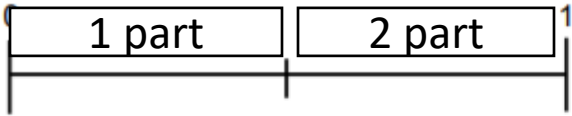
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**Skill 1.1**

**Activity 1**

Write what each number line is partitioned into. Use the correct language.  
Draw in the boxes to help you.

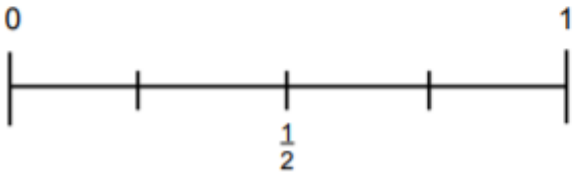
1.



\_\_\_\_\_

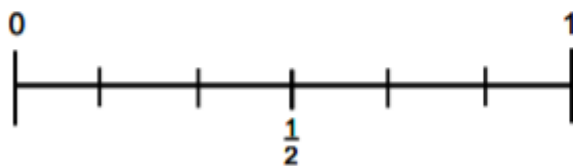
halves

2.



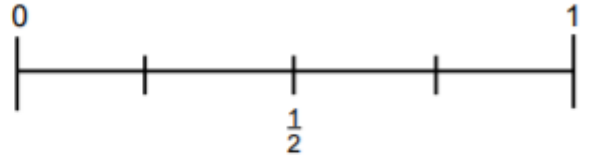
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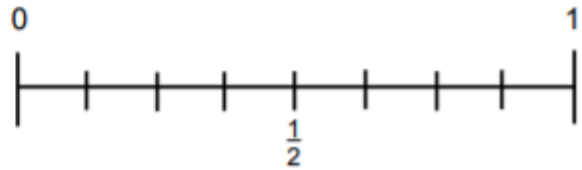
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4.



\_\_\_\_\_

5.



\_\_\_\_\_

6.



\_\_\_\_\_

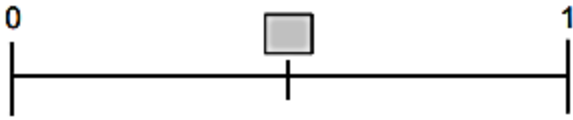
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**Skill 1.1**

**Activity 1**

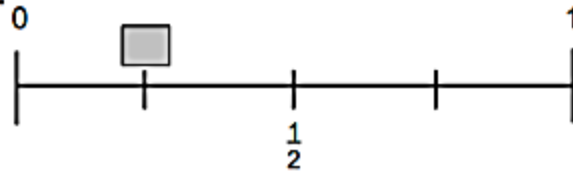
Write the fraction where the square is at on the number line.

1.



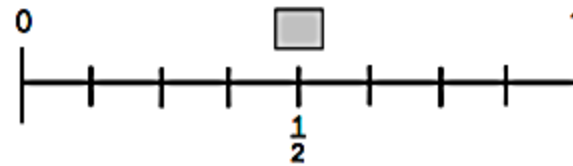
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2.



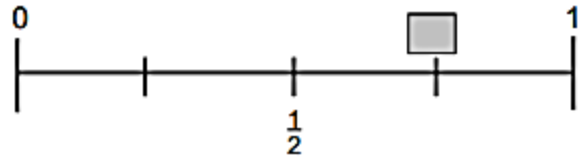
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3.



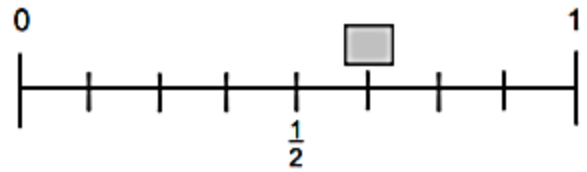
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4.



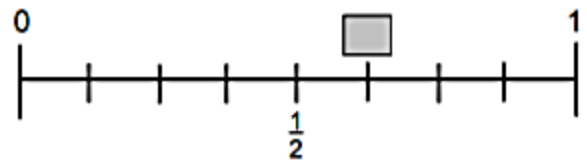
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5.



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6.



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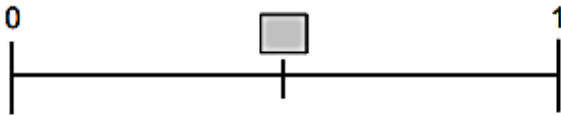
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**Skill 1.1**

**Activity 1**

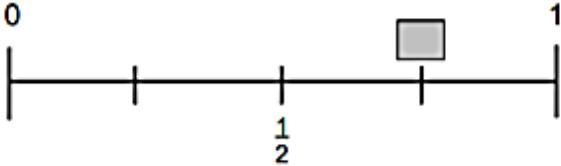
Write the fraction where the square is at on the number line.

1.



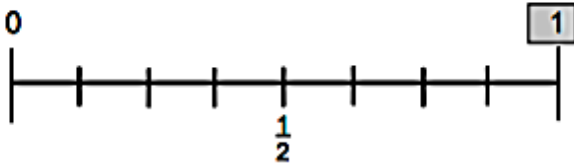
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2.



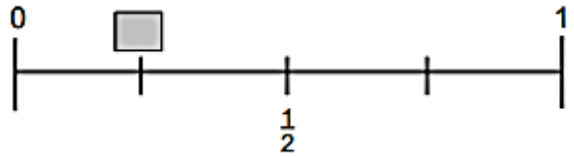
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3.



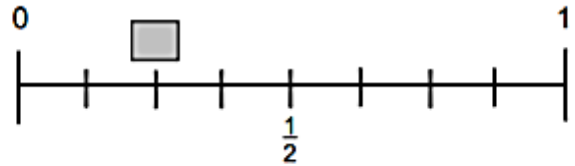
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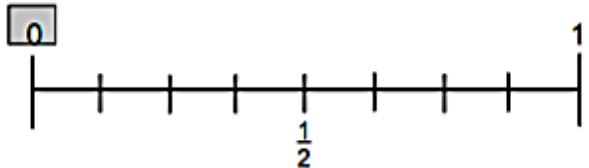
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5.



\_\_\_\_\_

6.



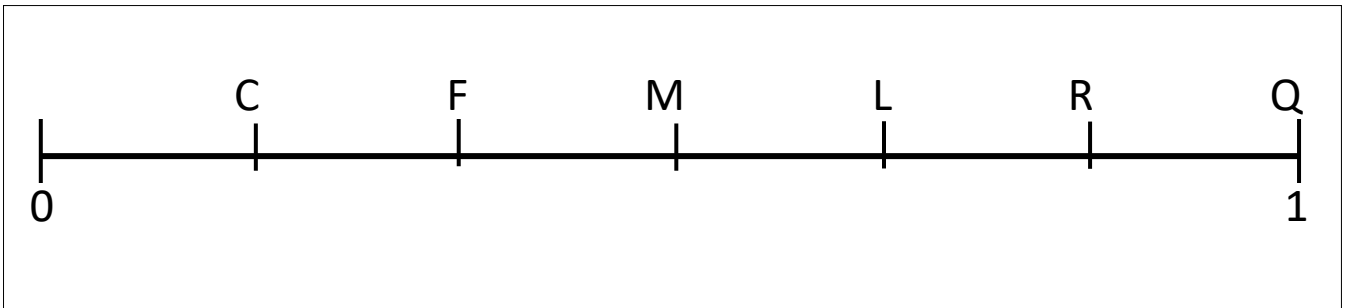
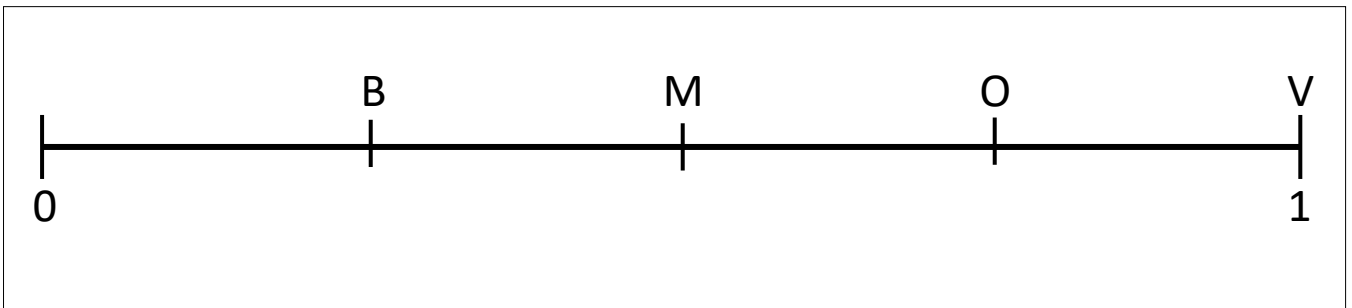
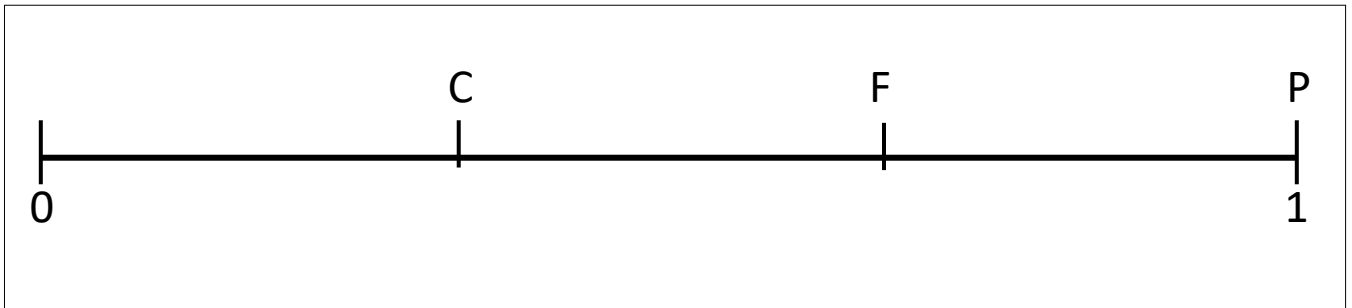
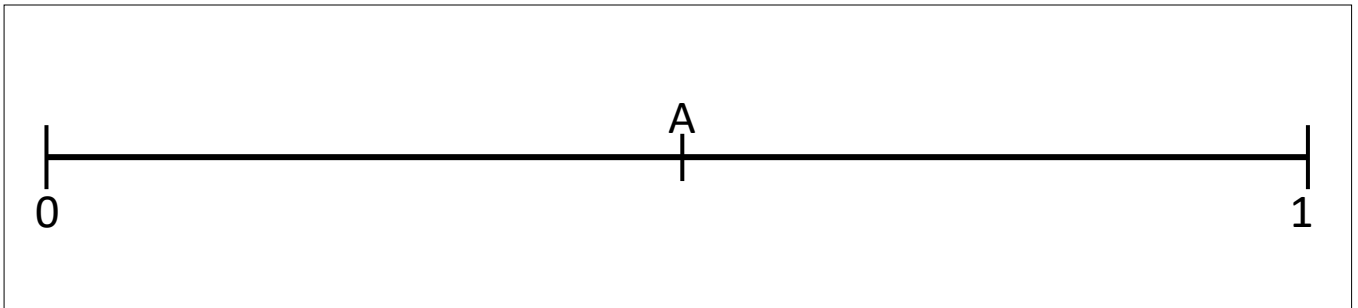
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**Skill 1.1**

**Activity 1**

Label the fraction or fractions on each number line.

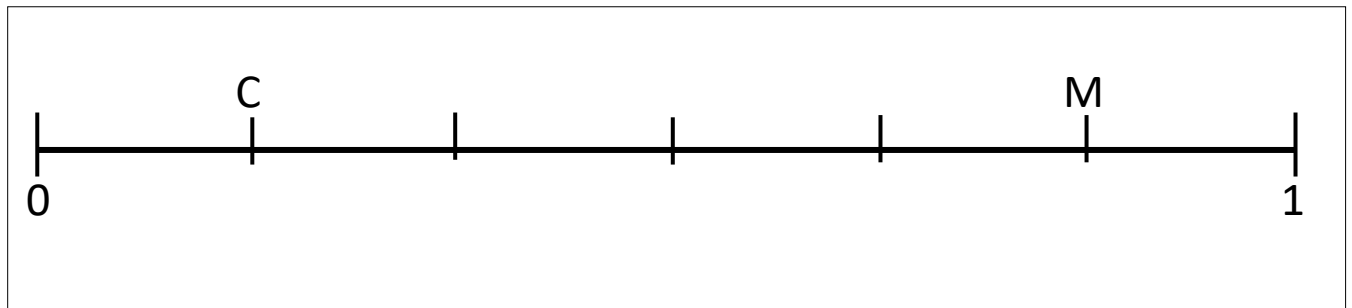
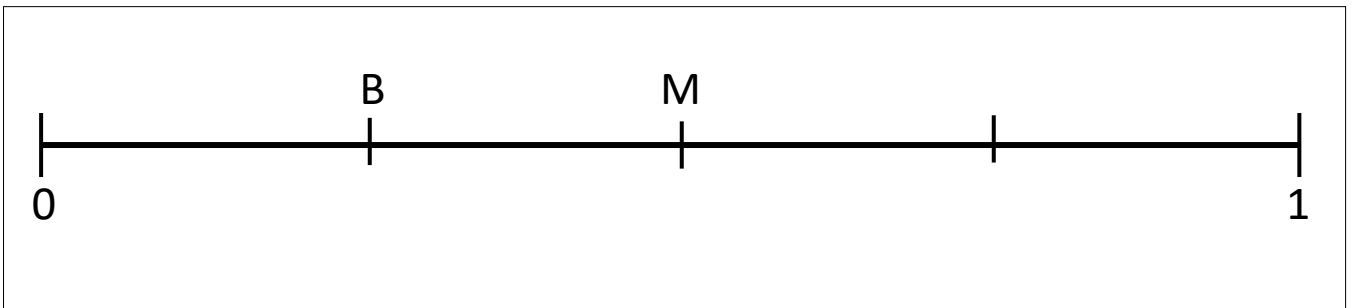
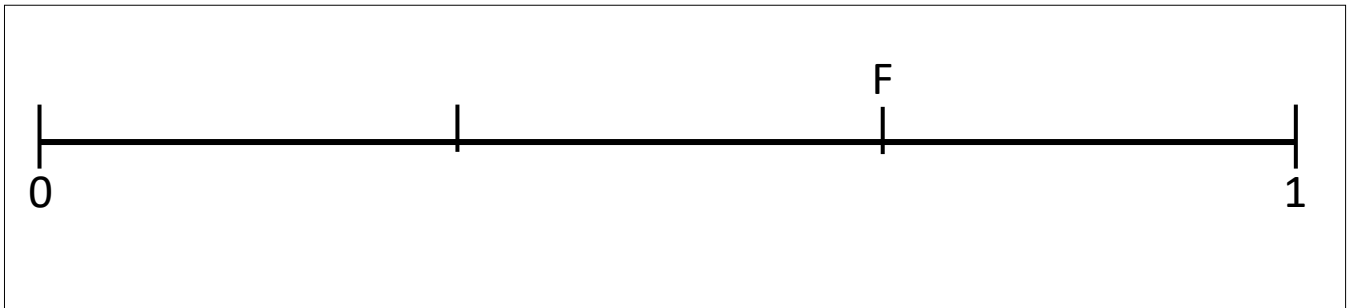
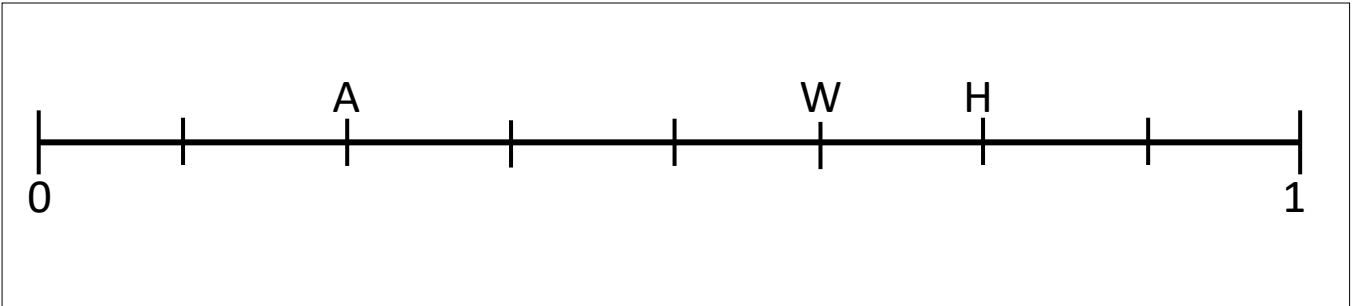


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**Skill 1.1**

**Activity 1**

Label the fraction or fractions on each number line.

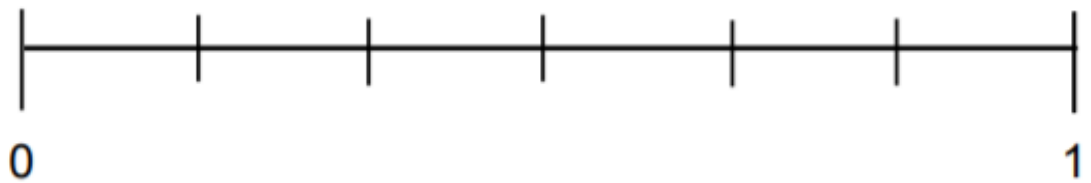
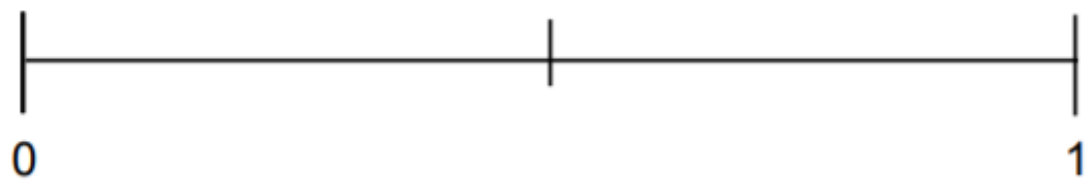
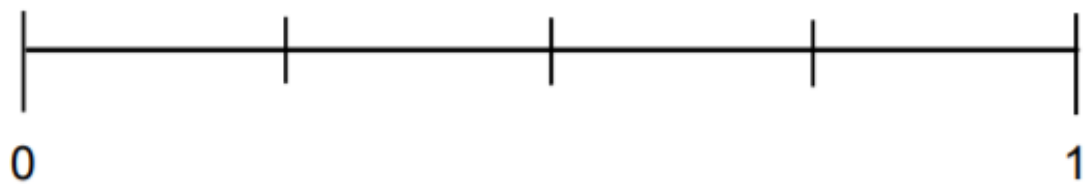
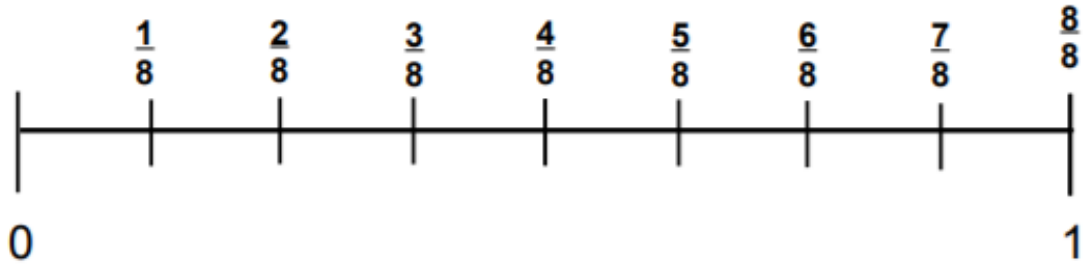


NAME \_\_\_\_\_

**Skill 1.1**

Activity 1

Label the number lines.



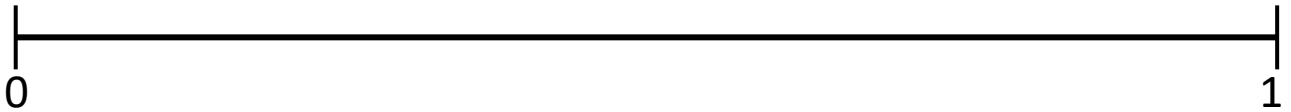
NAME \_\_\_\_\_

**Skill 1.1**

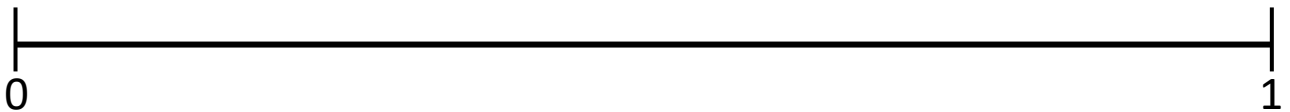
**Activity 2**

Draw a dot where the fraction would go.

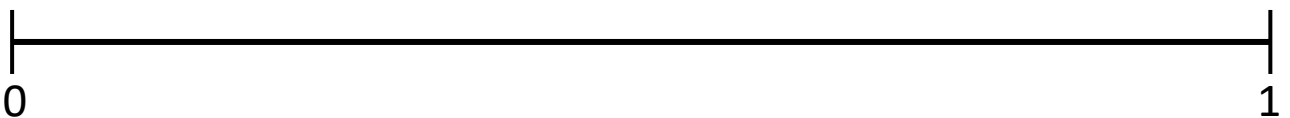
Draw a dot on the line where  $\frac{1}{2}$  would go.



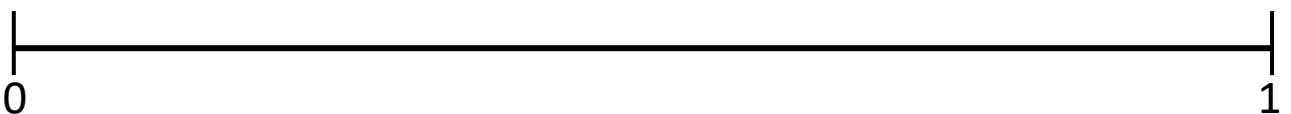
Draw a dot on the line where  $\frac{1}{4}$  would go.



Draw a dot on the line where  $\frac{2}{3}$  would go.



Draw a dot on the line where  $\frac{3}{4}$  would go.



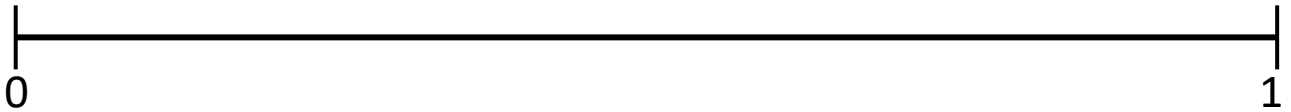
NAME \_\_\_\_\_

**Skill 1.1**

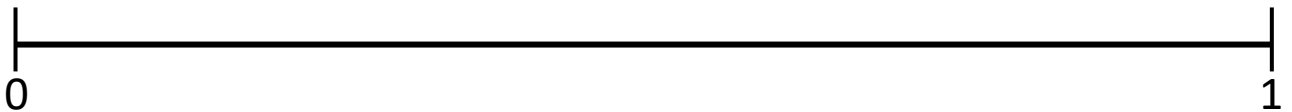
**Activity 2**

Draw a dot where the fraction would go.

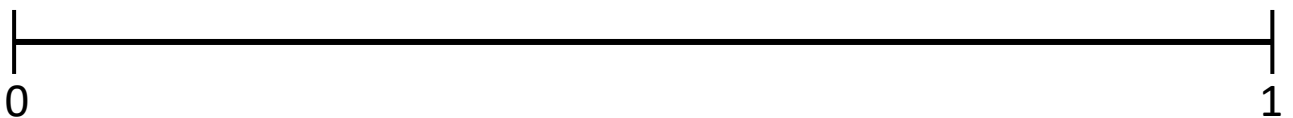
Draw a dot on the line where  $\frac{3}{4}$  would go.



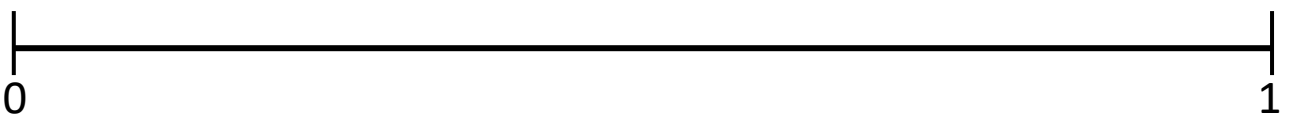
Draw a dot on the line where  $\frac{1}{8}$  would go.



Draw a dot on the line where  $\frac{3}{5}$  would go.



Draw a dot on the line where  $\frac{1}{3}$  would go.

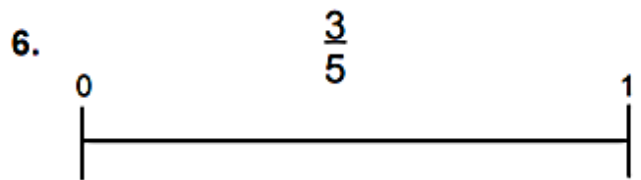
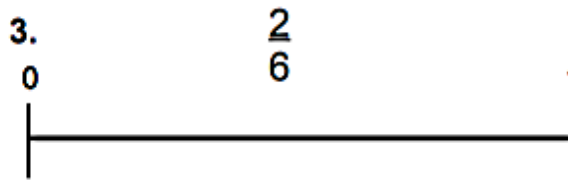
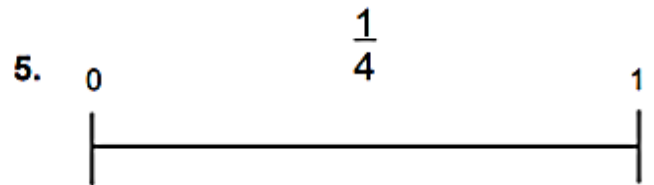
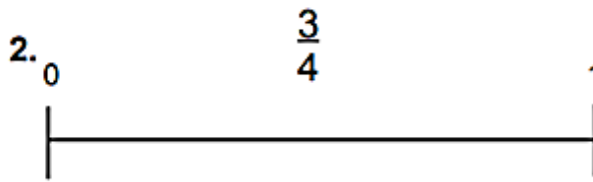
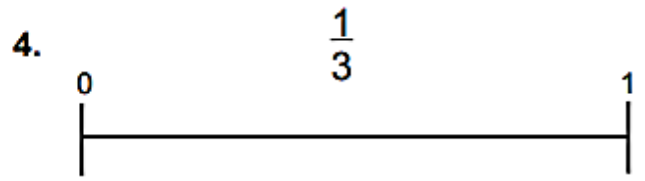
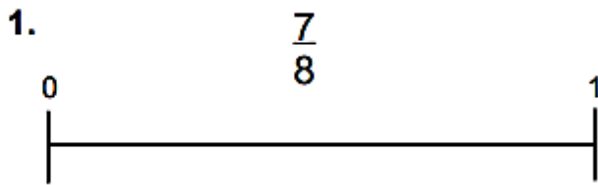


NAME \_\_\_\_\_

**Skill 1.1**

Activity 2

Draw a dot where the fraction would go.

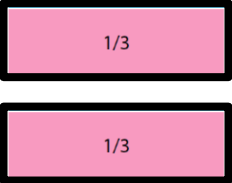
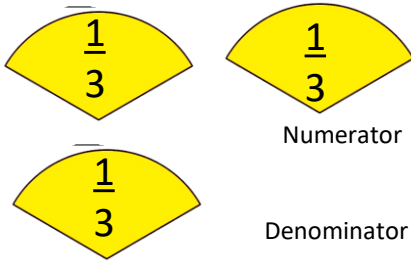
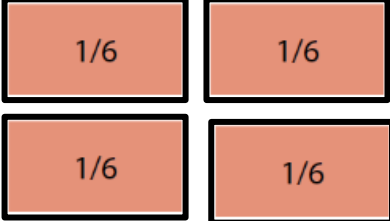
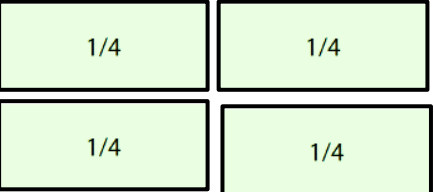
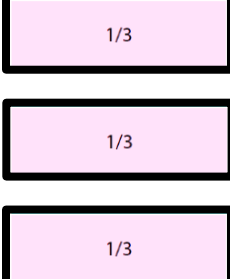

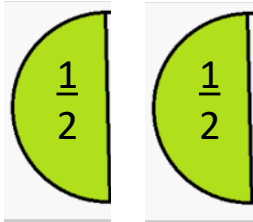
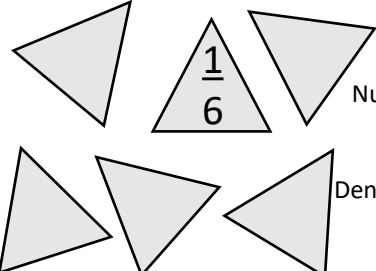


NAME \_\_\_\_\_

**Skill 2**  
**Activity 1**

Count the parts and write the fraction. **1** Numerator = How many did you count

**3** Denominator = What did you count

 <p>Numerator _____</p> <p>Denominator _____</p>	 <p>Numerator _____</p> <p>Denominator _____</p>
 <p>Numerator _____</p> <p>Denominator _____</p>	<p>1 Whole</p> <p>1 whole</p> <p>1 Whole</p> <p>Numerator _____</p> <p>Denominator _____</p>
 <p>Numerator _____</p> <p>Denominator _____</p>	 <p>Numerator _____</p> <p>Denominator _____</p>
 <p>Numerator _____</p> <p>Denominator _____</p>	 <p>Numerator _____</p> <p>Denominator _____</p>
 <p>Numerator _____</p> <p>Denominator _____</p>	<p>1</p> <p>1</p> <p>1</p> <p>Numerator _____</p> <p>Denominator _____</p>

NAME \_\_\_\_\_

**Skill 2**  
Activity 1

Count the parts and write the fraction. **1** Numerator = How many did you count

**3** Denominator = What did you count

1.



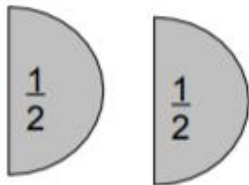
Answer  $\frac{3}{4}$

2.



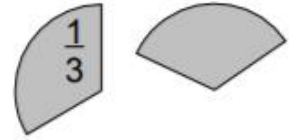
Answer \_\_\_\_\_

3.



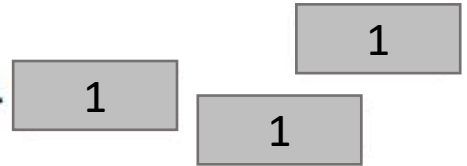
Answer \_\_\_\_\_

4.



Answer \_\_\_\_\_

5.



Answer \_\_\_\_\_

6.



Answer \_\_\_\_\_

NAME \_\_\_\_\_

**Skill 2**  
Activity 1

Count the parts and write the fraction.

**1** Numerator = How many did you count

**3** Denominator = What did you count

1.



Answer \_\_\_\_\_

2.



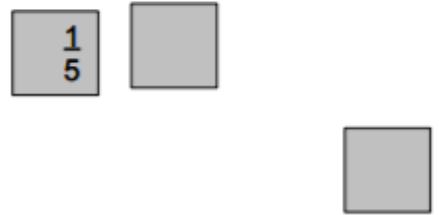
Answer \_\_\_\_\_

3.



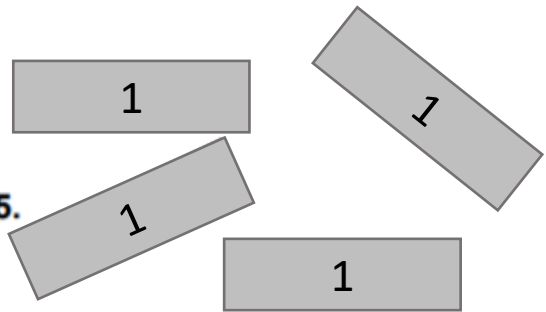
Answer \_\_\_\_\_

4.



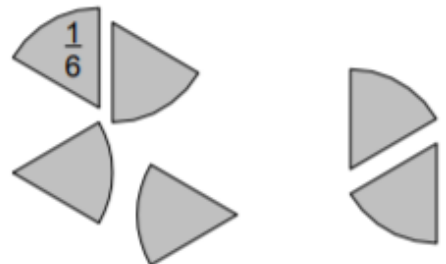
Answer \_\_\_\_\_

5.



Answer \_\_\_\_\_

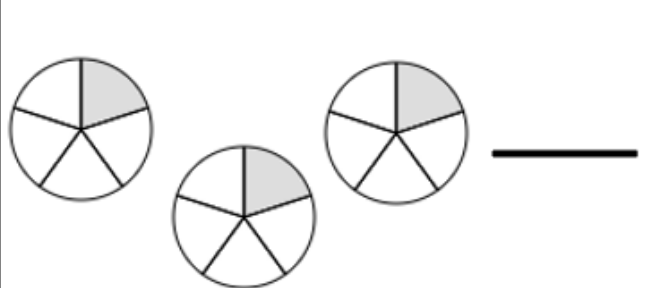
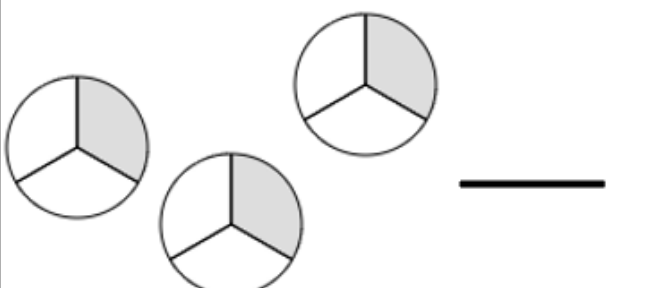
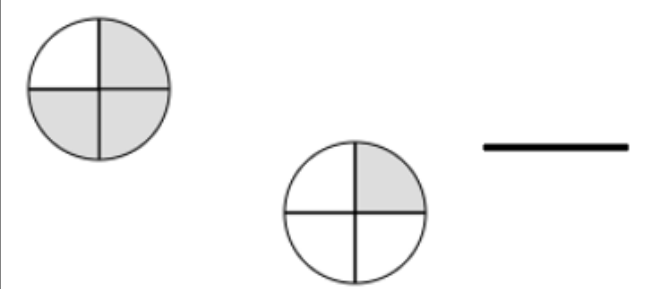
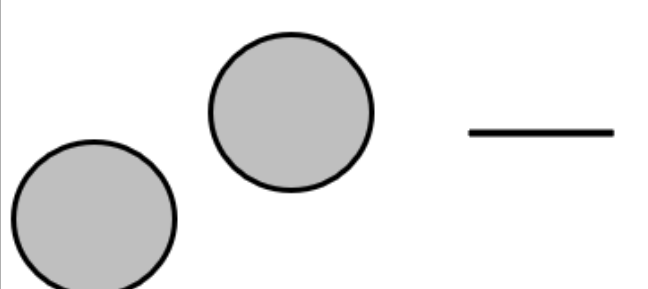
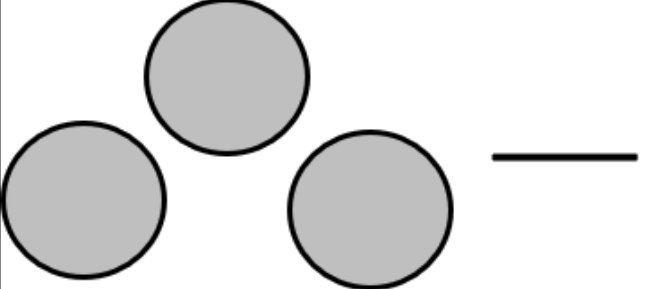
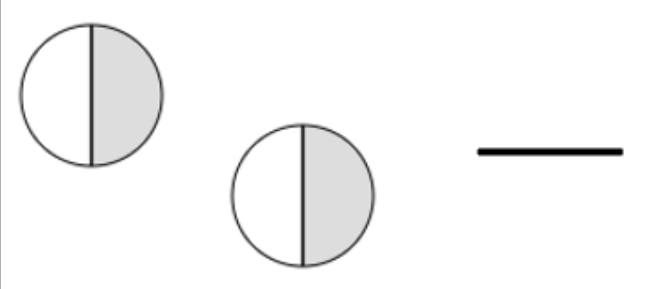
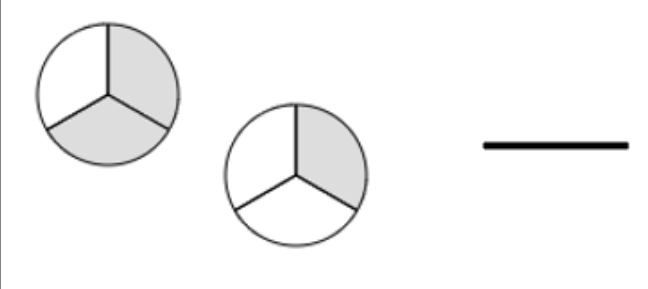

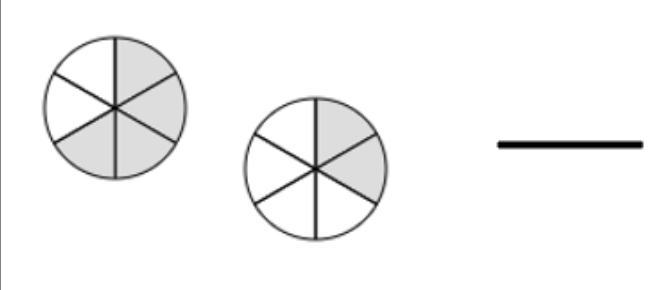
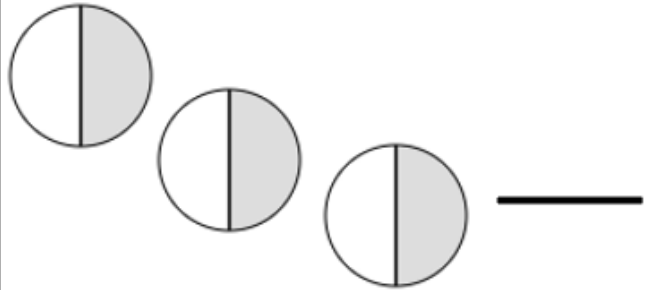
6.



Answer \_\_\_\_\_

NAME \_\_\_\_\_

**Skill 2****Activity 2**Count the parts and write the fraction. **1** Numerator = How many did you count**3** Denominator = What did you count

 _____	 _____
 _____	 _____
 _____	 _____
 _____	 _____
 _____	 _____

NAME \_\_\_\_\_

**Skill 2**

**Activity 2**

Count the parts and write the fraction. **1**

Numerator = How many did you count

**3** Denominator = What did you count

<p>_____</p>	<p>_____</p>
<p>_____</p>	<p>_____</p>
<p>_____</p>	<p>_____</p>
<p>_____</p>	<p>_____</p>
<p>_____</p>	<p>_____</p>

NAME \_\_\_\_\_

**Skill 2**

**Activity 3**

Count the parts and write the fraction. Count the fractions just like you counted the fraction pieces.

1.  $\frac{1}{4} + \frac{1}{4} + \frac{1}{4}$

Answer \_\_\_\_\_

2.  $\frac{1}{6} + \frac{1}{6}$

Answer \_\_\_\_\_

3.  $\frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5}$

Answer \_\_\_\_\_

4.  $\frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7}$

Answer \_\_\_\_\_

5.  $\frac{1}{8} + \frac{1}{8} + \frac{1}{8}$

Answer \_\_\_\_\_

6.  $\frac{1}{3} + \frac{1}{3} + \frac{1}{3}$

Answer \_\_\_\_\_

NAME \_\_\_\_\_

**Skill 2**

## Activity 3

Count the parts and write the fraction. Count the fractions just like you counted the fraction pieces.

$$\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} =$$

$$\frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5} =$$

$$\frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} =$$

$$\frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} =$$

$$\frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5} =$$

$$\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} =$$

$$\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} =$$

$$\frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} =$$

$$\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} =$$

$$\frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7} =$$



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