



Small Group Math Stations: Fraction Action for All

Learning Forward 2015
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Purpose of Small Group Math Time

- ▶ Differentiation
- ▶ Enrichment
- ▶ Learning from Other Students
- ▶ Additional Time for Not Mastered Content
- ▶ Additional Practice for Not Mastered Content
- ▶ Opportunity for Teacher Table
- ▶ Meet the Needs of the Individual Student



Structure

- ▶ Independent Rotation
- ▶ System in Place - Management
- ▶ Intentional Organization
- ▶ Single Task vs. Multiple Task
- ▶ Student Accountability
- ▶ Pre-Teaching



Station Activities

- ▶ Begin with the End in Mind
- ▶ Aligned to KCCRS
- ▶ Standards for Mathematical Practice
- ▶ Demonstrate Independence
- ▶ Develop Conceptual Understanding
- ▶ Create Context and Application
- ▶ Build Fluency

Compare

$$\frac{6}{7} \quad \frac{7}{8}$$

Comparison

- ▶ **Distance to Zero**
- ▶ **Common Denominators**
- ▶ **Common Numerators**
- ▶ **Distance to One**
- ▶ **Benchmark to $\frac{1}{2}$ and to One**
- ▶ **Distance to $\frac{1}{2}$**

Things you should know:

- ▶ **Accountability sheets located in the station tub**
- ▶ **Manipulatives available**
- ▶ **Communities for students to work collaboratively**

Station Checklist

Name: _____

Task #1	Task #2	Task #3	
<input type="checkbox"/>			Using Unit Fractions
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Area
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sets
<input type="checkbox"/>	<input type="checkbox"/>		Comparison
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Problem Solving
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Teacher Station

Notes:

Stations

- ▶ **Using Unit Fractions**
- ▶ **Sets**
- ▶ **Area**
- ▶ **Comparison**
- ▶ **Problem Solving**

Reflection & Questions

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Today's Blackline Masters and Presentation

▶ <http://essdk.me/2015LFMATH>



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Learning Forward 2015

ESSDACK
Learning Stations
 for Math

<http://essdk.me/MathStation>

[Learn More Here](#)

Small Group Math Stations: Fraction Action for All

Use the code:
LF2015
 until March 16 and receive free shipping
 on all orders \$40 and over.

Flip Flop Facts	Grades
■ Sums of Five & Ten	K - 1
★ Whole Number Add & Subtract	K - 2
★ Whole Number Multiply & Divide	3 - 5
■ Integers Addition	7 - 8
■ Integers Subtraction	7 - 8
■ Integers Multiply & Divide	7 - 8

Tick Tock	Grades
★ Telling Time	1 - 2
● Elapsed Time	2 - 3

Geometric Gems	Grades
■ Shapes & Position	K - 1

Measurement Mix	Grades
● Area & Perimeter	3 - 4

Each deck comes with a task sheet that provides direction for use, extensions, answers and possible student accountability ideas.

Fraction Action	Grades
● Area	3 - 6
■ Sets	3 - 6
■ Comparison	3 - 6
● Using Unit Fractions	3 - 6
■ Addition & Subtraction	5 - 6

Nifty Numbers	Grades
● Comparing Less than 20	K - 1
■ Missing Numbers	K - 1
■ Matching Quantities	K - 1
● Even or Odd and Arrays	2
■ Relational Thinking 1	K - 4
■ Relational Thinking 2	3 - 6
● Place Value 1	K - 2
● Place Value 2	2 - 4
● Place Value 3	4 - 6

PhotoSparks \$12.95	Grades
Math 1	K - 12
Math 2	K - 12

- ★ More than 54 cards (4.25 x 3.66) \$10
- 24 Cards (5.5 x 4.25) \$8
- 36 Cards (4.25 x 3.66) \$8

Station Checklist

Name:

Task #1

Task #2

Task #3

Using Unit Fractions

Area

Sets

Comparison

Problem Solving

Teacher Station

Notes:

Using Unit Fractions
Task #1

Name: _____

Record answer in the chart below.

#1	#5
#7	#8
#9	#10
#14	#17

**Area
Task #1**

Name: _____

Record answer in the chart below using pattern blocks.

#1	#3
#5	#7
#9	#10

Area
Task #2

Name: _____

Record answer in the chart below using pattern blocks.

#11	#17
#21	#22

**Area
Task #3**

Name: _____

Record answer in the chart below using pattern blocks.

#12	#19
#20	#23

Sets
Task #1

Name: _____

Record answer in the chart below. Draw a picture to justify your answer.

#1	#2
#5	#7
#8	#11

Sets
Task #2

Name: _____

Record answer in the chart below. Draw a picture to justify your answer.

#14	#16
#18	#19
#20	#21

Sets
Task #3

Name: _____

Record answer in the chart below.

#25	#26
#27	#28
#29	#30

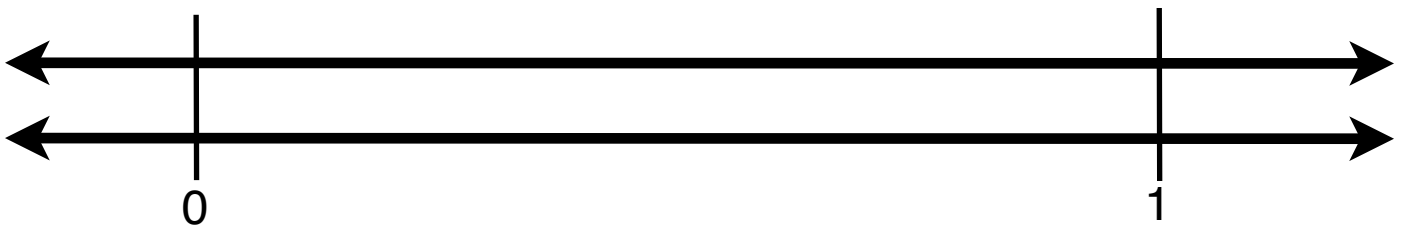
#35 - Read the question carefully.

**Comparison
Task #1**

Name: _____

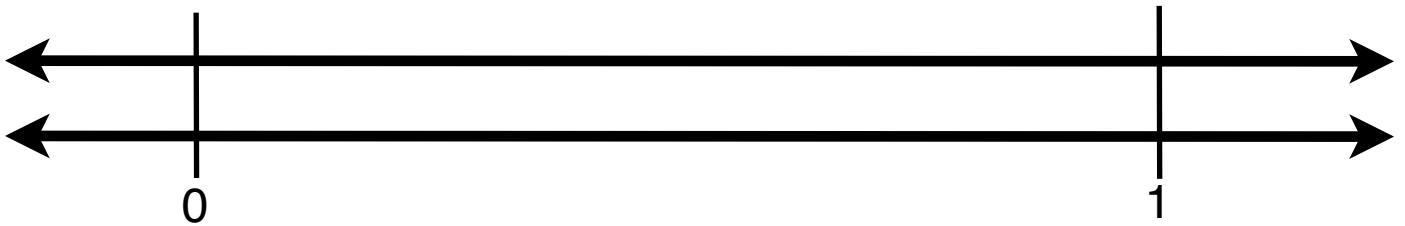
Record answer in the spaces below. Justify your answer using unit fractions. The number line and rectangles are available to assist with your picture if you choose to use them.

#2



Two empty rectangular boxes stacked vertically, intended for drawing or writing.

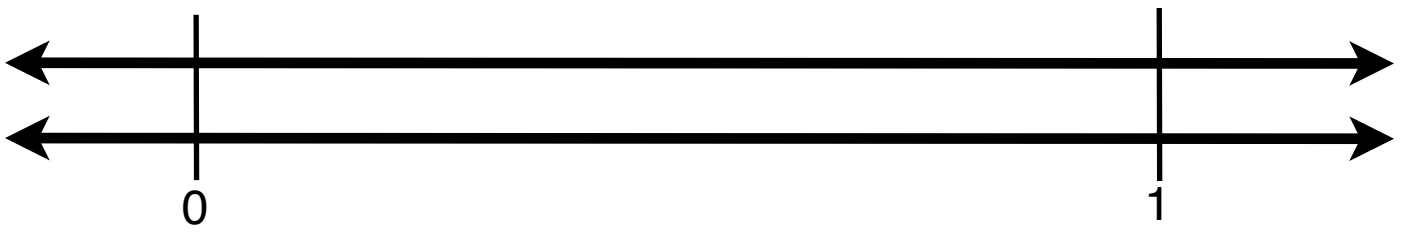
#12



Two empty rectangular boxes stacked vertically, intended for drawing or writing.

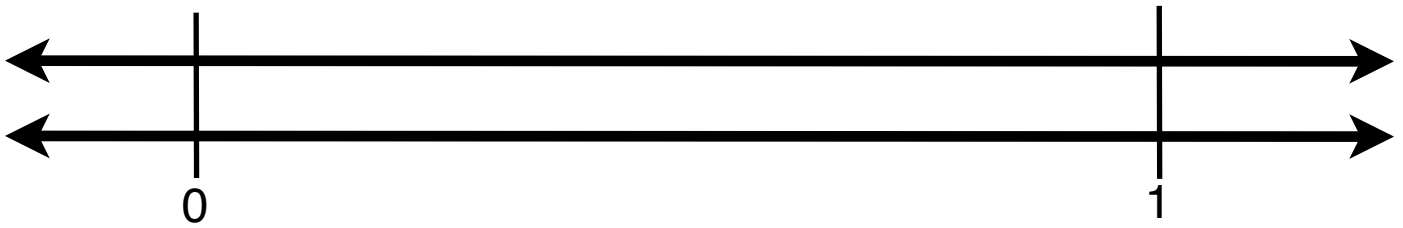
Comparison - Task #1
Continued

#26



Two empty rectangular boxes stacked vertically, intended for the student's answer to problem #26.

#28



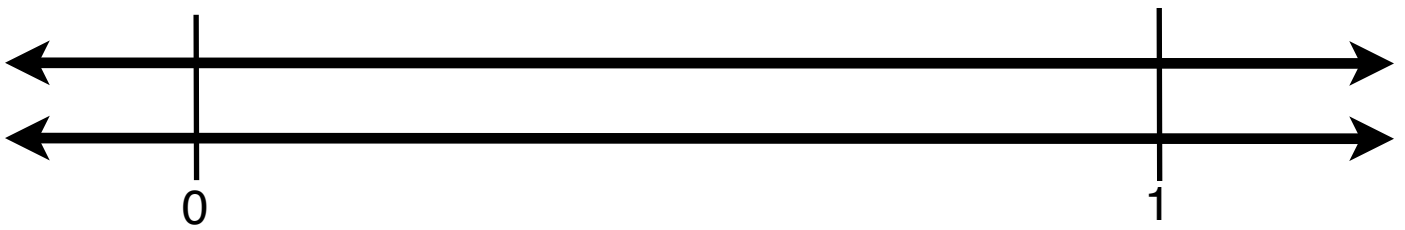
Two empty rectangular boxes stacked vertically, intended for the student's answer to problem #28.

**Comparison
Task #2**

Name: _____

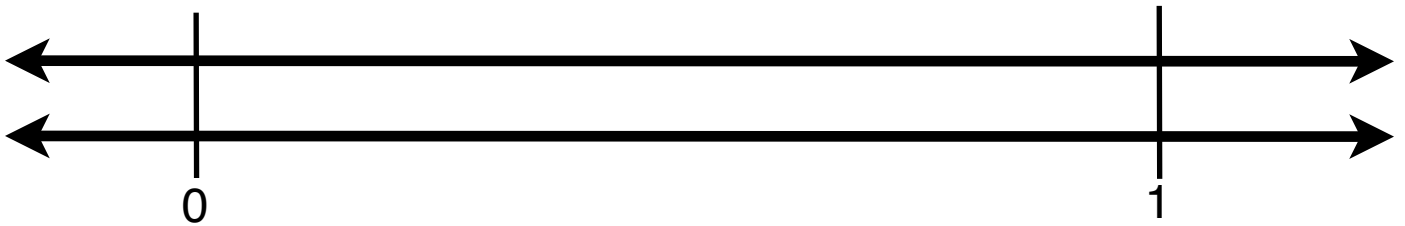
Record answer in the space below. Justify your answer using unit fractions. The number line and rectangles are available to assist with your picture if you choose to use them.

#15



Two empty rectangular boxes stacked vertically, intended for drawing or writing.

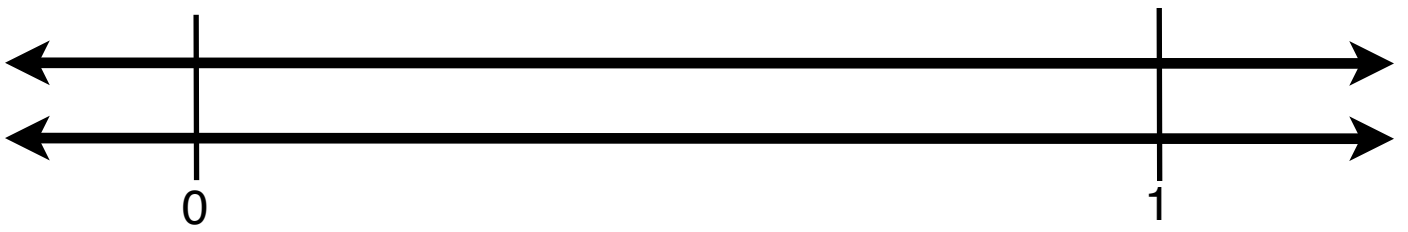
#23



Two empty rectangular boxes stacked vertically, intended for drawing or writing.

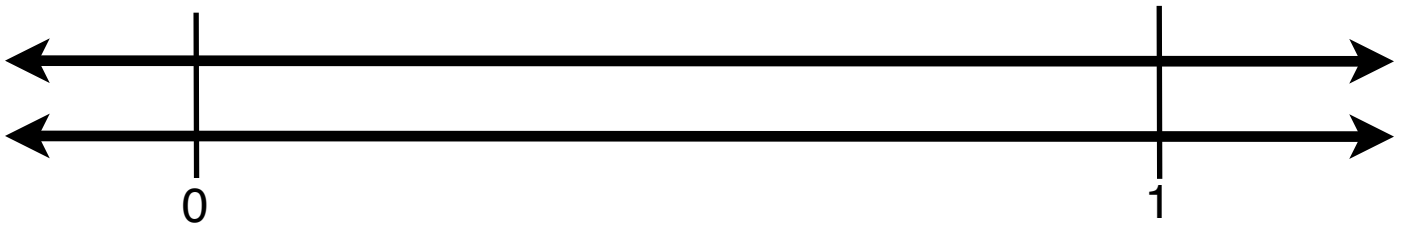
Comparison - Task #2
Continued

#29



Two empty rectangular boxes stacked vertically, intended for the student's answer to problem #29.

#35



Two empty rectangular boxes stacked vertically, intended for the student's answer to problem #35.

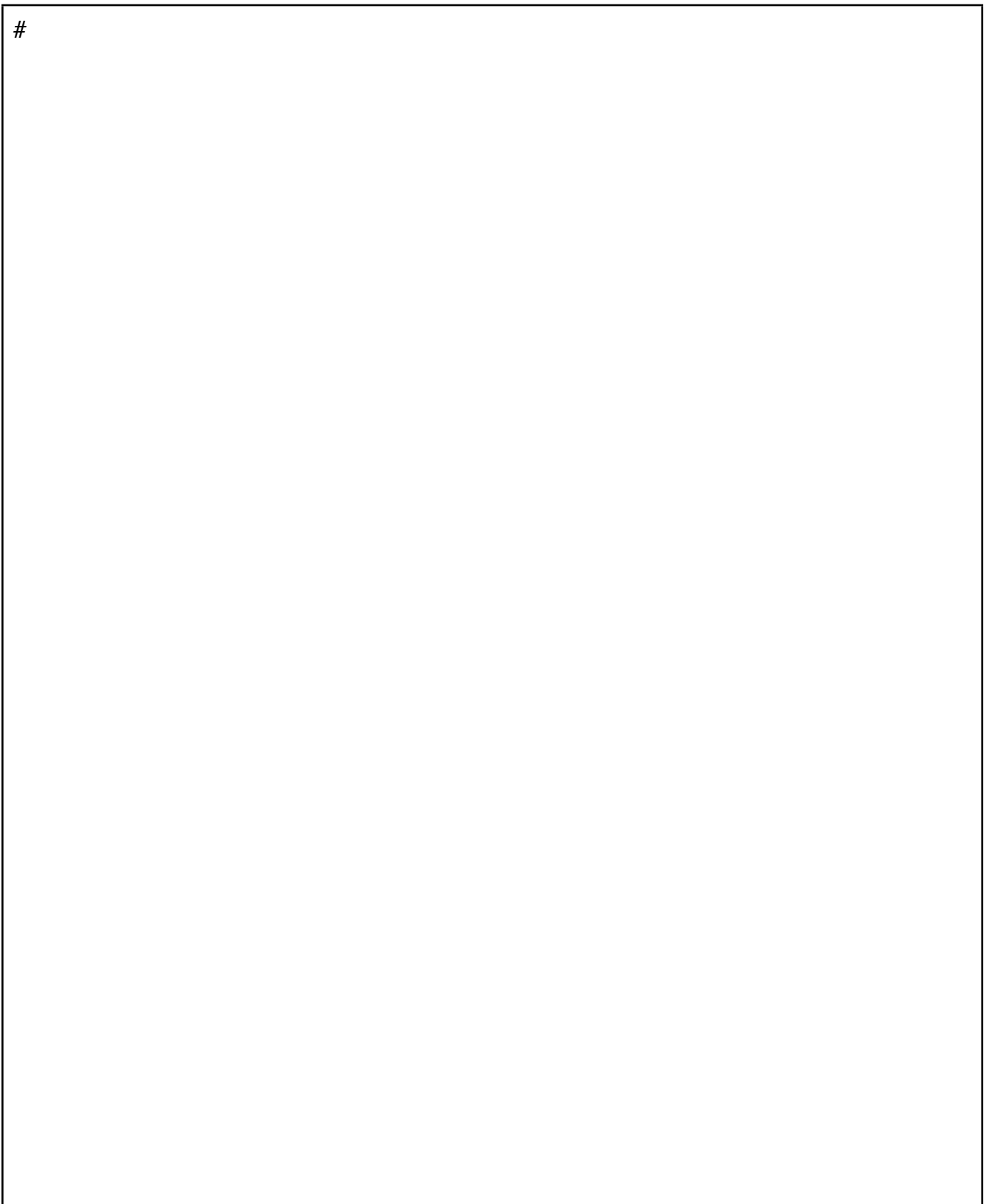
Problem Solving

Name: _____

Task #1

Record your thinking in the chart below. Draw a picture to justify your answer.
Record a number sentence. Remember to *Attend to Precision*.

#



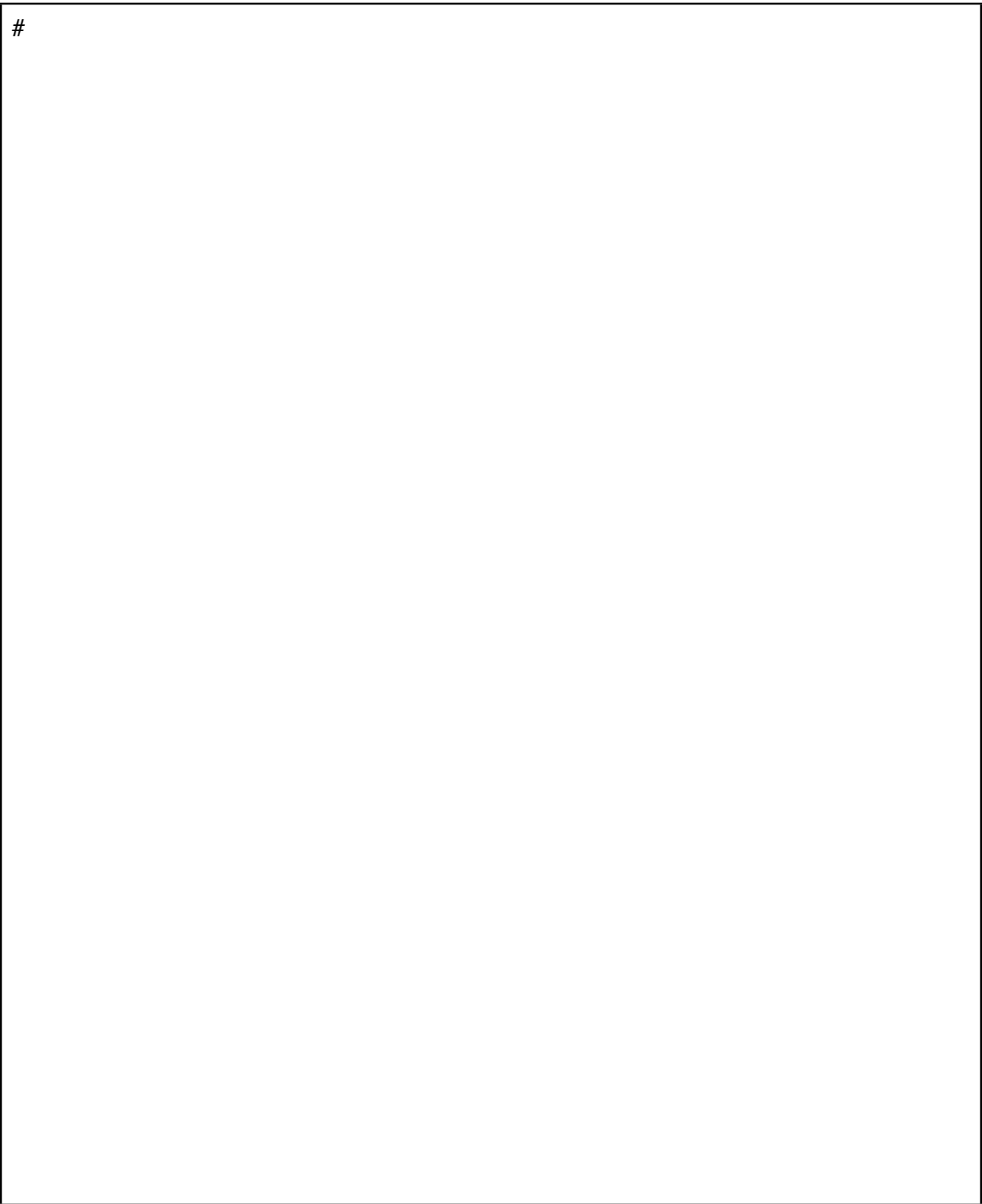
Problem Solving

Name: _____

Task #2

Record your thinking in the chart below. Draw a picture to justify your answer.
Record a number sentence. Remember to *Attend to Precision*.

#



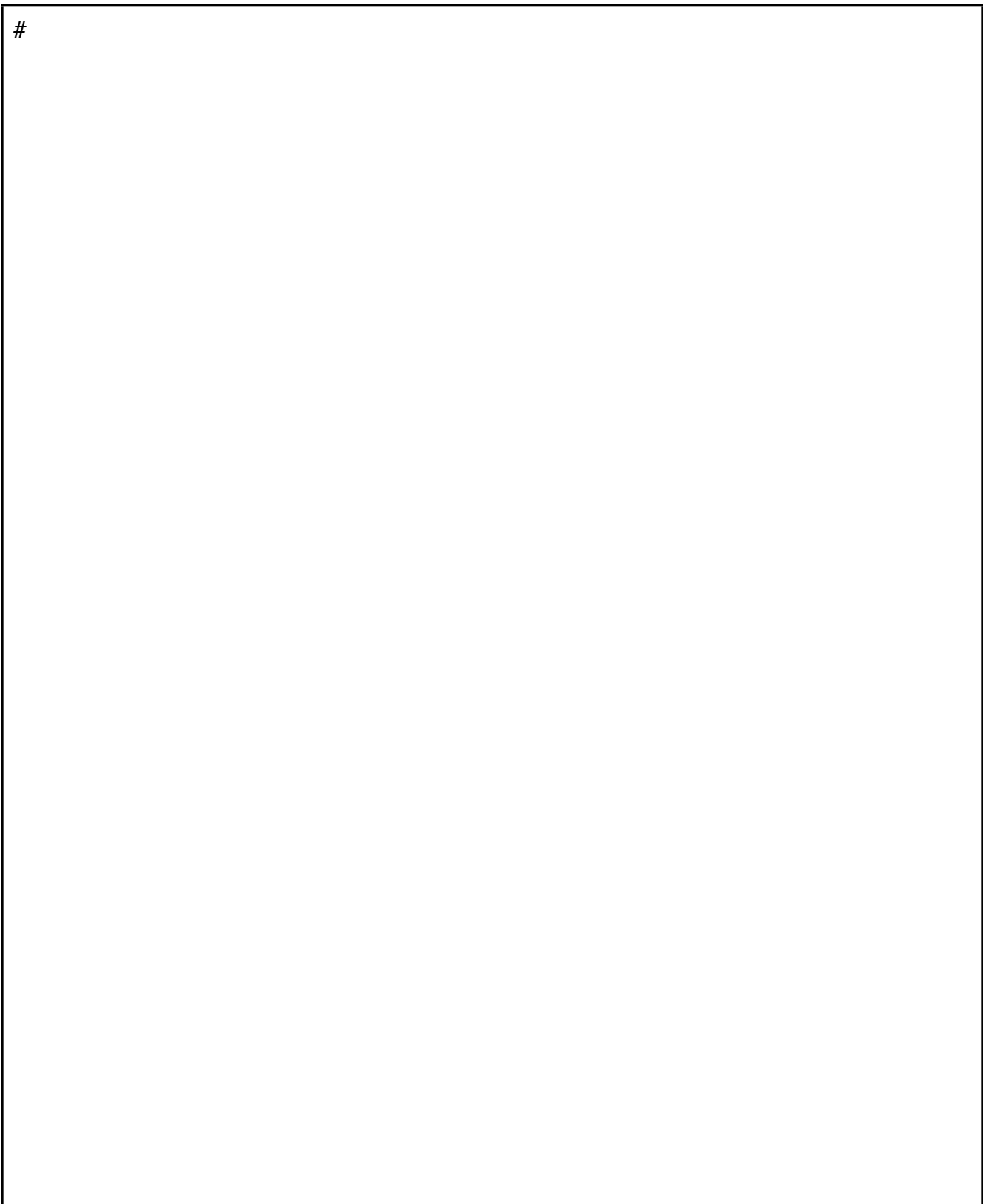
Problem Solving

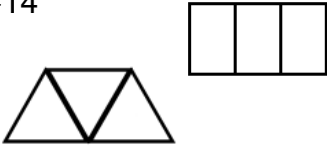
Name: _____

Task #3

Record your thinking in the chart below. Draw a picture to justify your answer.
Record a number sentence. Remember to *Attend to Precision*.

#



Using Unit Fractions - Answers			
#1 $\frac{1}{3}$	#5 $\frac{1}{2}$	#7 $\frac{1}{6}$	#8 $\frac{5}{8}$
#9 $\frac{1}{2}$ or $\frac{4}{8}$	#10 $\frac{3}{6}$ & $\frac{1}{2}$	#14 	#17 $\frac{3}{4}$

Area - Answers			
#1 - 1 triangle	#3 - 2 triangles	#5 - 3 wholes	#7 - 6 wholes
#9 - $1\frac{1}{2}$ wholes	#10 - 3 wholes	#11 - 3 triangles	#12 - 9 triangles
#17 - 5 triangles	#19 - 4 triangles	#20 - 11 triangles	#21 - 6 triangles
#22 - 4 triangles	#23 - 16 triangles		

Sets - Answers					#1 - 4
#2 - 12	#5 - 20	#7 - 5	#8 - 9	#11 - 21	#14 - 40
#16 - 28	#18 - 12	#19 - 44	#20 - 18	#21 - 35	#25 - 3
#26 - 3	#27 - 6	#28 - 6	#29 - 6	#30 - 8	#35 - 12

Comparison - Answers							
#2 $\frac{5}{7}$	#12 $\frac{8}{9}$	#15 $\frac{9}{16}$	#23 $\frac{4}{10}$	#26 $\frac{1}{3}$	#28 $\frac{3}{8}$	#29 $\frac{4}{10}$	#35 $<$

Problem Solving Addition & Subtraction - Answers		
#3 $\frac{42}{100}$ or $\frac{21}{50}$ inch of rain	#11 $\frac{31}{24}$ or $1\frac{7}{24}$ pizza	#17 $4\frac{23}{24}$ yards
#22 $2\frac{1}{3}$ pounds of cherries	#27 $\frac{4}{10}$ or $\frac{2}{5}$ of the class went to the evening movie	#32 $4\frac{1}{4}$ hours less