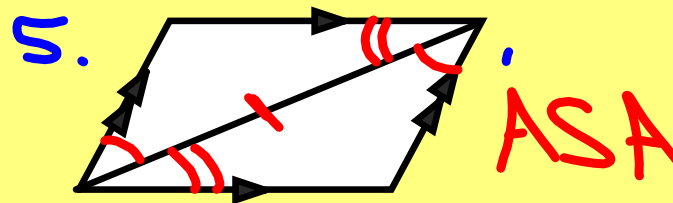
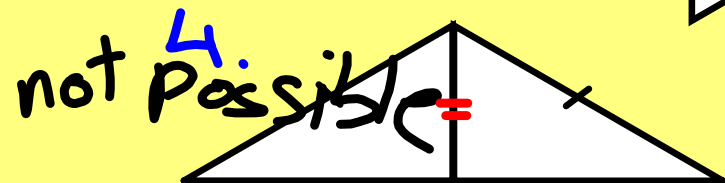
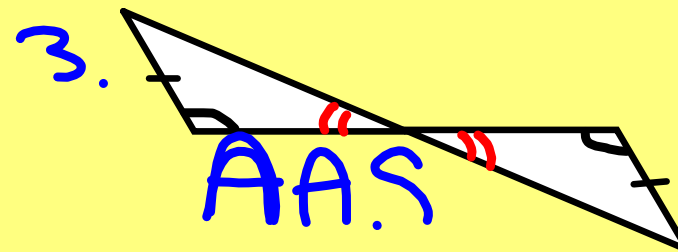
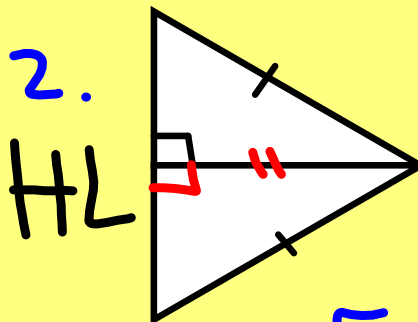
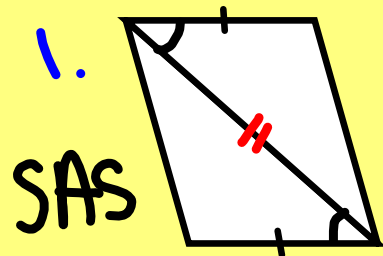


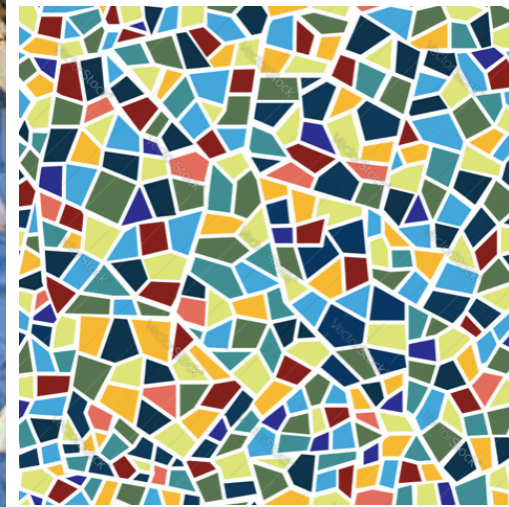
# 11/7/19 - Warm Up Problem

What is the reason that each pair of triangles is congruent?  
SSS, SAS, ASA, AAS, or HL?



**Mosaic:**

A surface decoration made by inlaying small pieces of colored material (stone/glass/tile) to form pictures or patterns



# Congruent Triangle Mosaic Project

## Challenge:

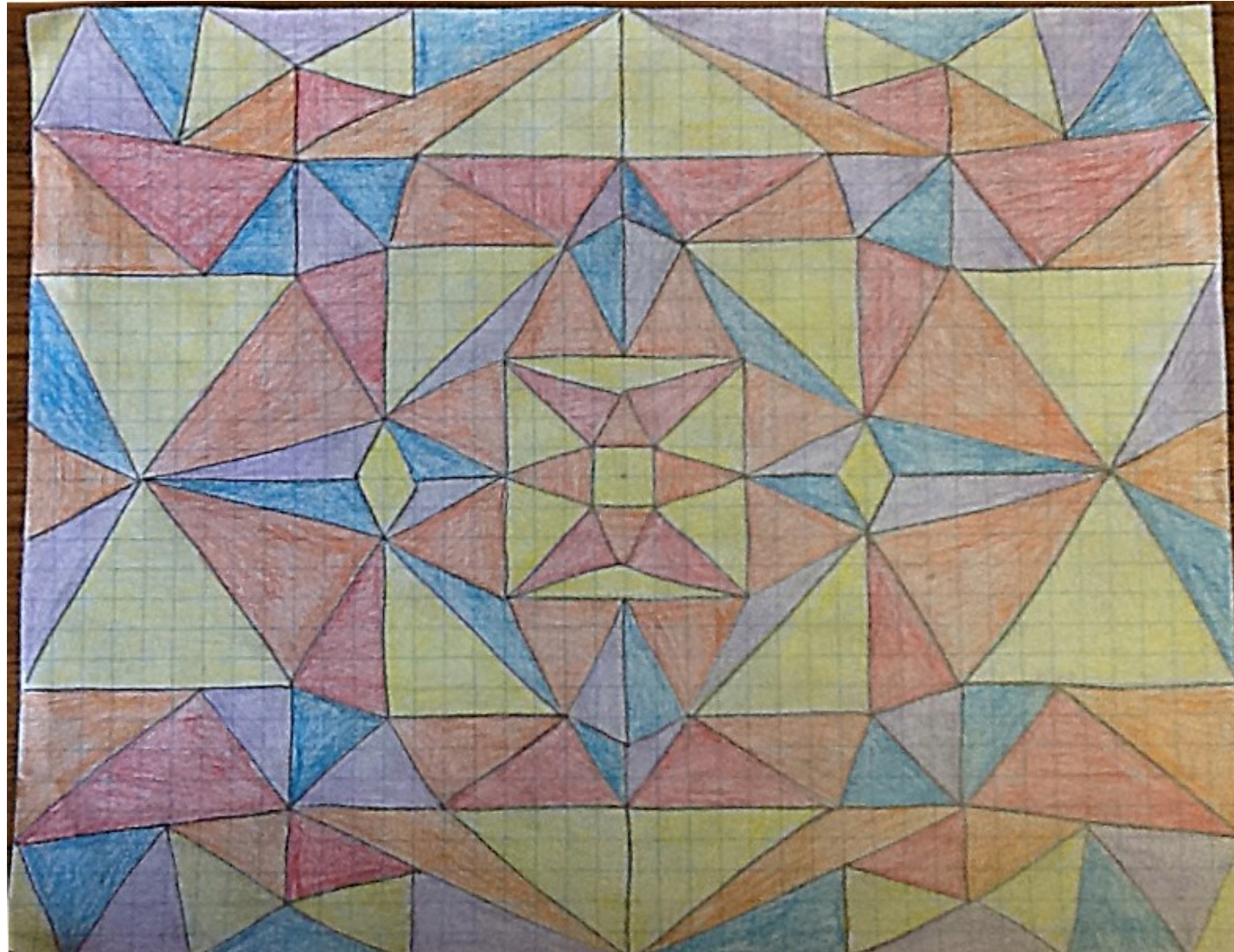
Draw an abstract mosaic design which meets all of the requirements listed below. You will be working on the skills of precision, attention to detail, classifying triangles, and determining if triangles are congruent.

## Design Requirements:

- 1) Every triangle must be congruent to at least one other triangle in the design
- 2) You must have at least 30 triangles in the design
- 3) All 30 triangles cannot be congruent to each other – go for more variety!
- 4) You can include quadrilaterals, but there must be more triangles than quadrilaterals in your design
- 4) Your design can be any colors you want, but it should be colored (more than just black and white)



THE MATHS OF MOSAIC







## Step 1: Draw your design

- Use graph paper and ruler
- Color when your done drawing

## Step 2: Classify your triangles

- Fill in the table of the back of the instructions

Shape	Number Used
Scalene Triangles	
Equilateral or Isosceles Triangle	
Rectangle	
Square	
Any other Quadrilateral	
Total Number of Triangles and Quadrilaterals	

## Step 3: Written Reflection

- Answer the questions on the back of the instruction paper

# GRADING RUBRIC

Category	# Possible	Your Score
Design <ul style="list-style-type: none"><li>• Meets all requirements</li><li>• Is done neatly and precisely</li><li>• Shows creativity and effort</li></ul>	3	
Classifying Table <ul style="list-style-type: none"><li>• Includes all shapes used</li><li>• Shapes are classified correctly</li></ul>	3	
Written Reflection <ul style="list-style-type: none"><li>• Answers all three questions</li><li>• Is written using complete sentences, correct grammar and spelling</li></ul>	3	
Late Penalty (-3 points if turned in after 11/9)		
<b>Total:</b>	<b>9</b>	