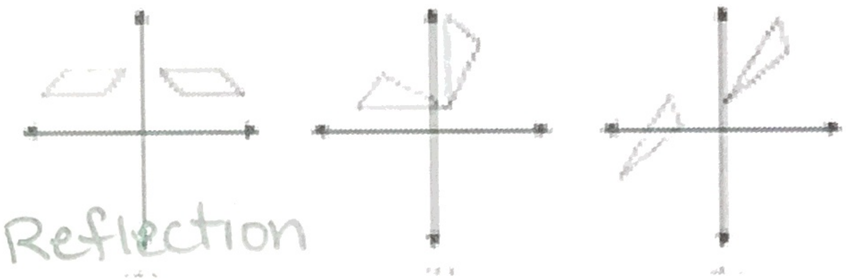
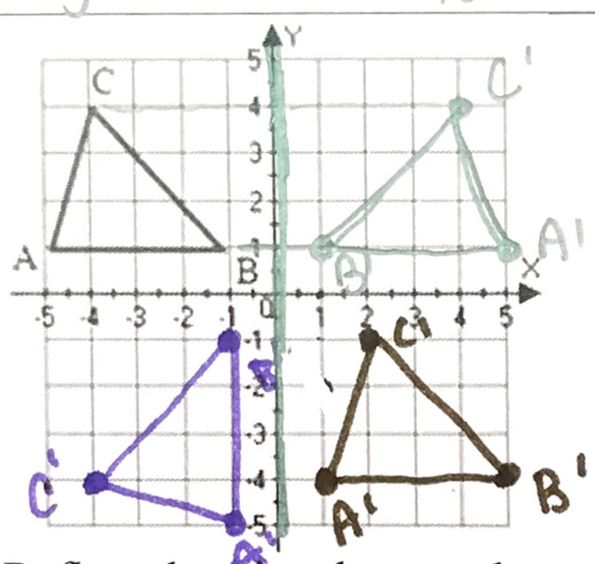
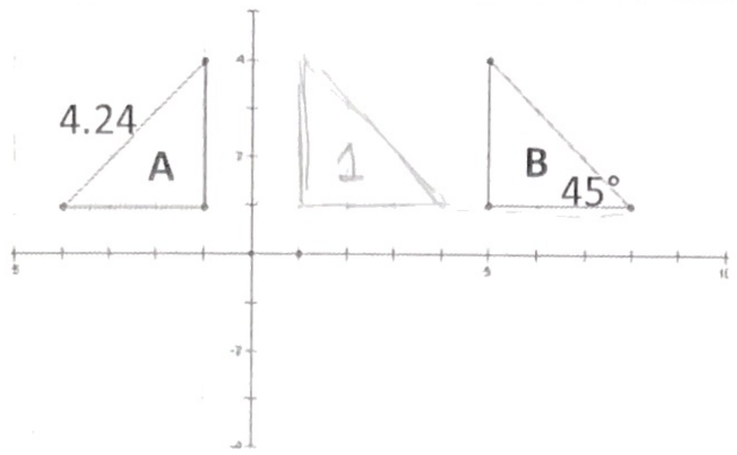
TRANSFORMATIONAL GEOMETRY PART 1
UNIT 6A TARGETS

SKILL	EXAMPLE	I THINK I WILL GET A...	ACTUAL TEST SCORE
I can identify an isometry.	 Reflection What transformation occurred in each pair? over y-axis Rotate 90° Translate		
**** I can apply reflections on the coordinate plane.**	 A'(5,1) B'(1,1) C'(4,4) Reflected Reflect the triangle over the y-axis. Give the coordinates of the image. Pencil	Rotated A'(-1,-5) B'(-1,-1) C'(-4,-4)	
**** I can apply rotations on the coordinate plane.**	Using the picture above, rotate the triangle 90 degrees counter-clockwise around the origin. Give the coordinates of the image. Purple marker		
**** I can apply translations on the coordinate plane.**	Using the picture above, translate the triangle 5 units down and 6 units right. Give the coordinates of the image. Brown Marker Write the translation in coordinate notation. $(x,y) \rightarrow (x+6, y-5)$	Translated A'(1,-4) B'(5,-4) C'(2,-1)	

I can use isometries to give lengths and angle measures.	 What is the length of the hypotenuse of triangle B? How do you know? 4.24 b/c the shapes are congruent What is the angle measure of the acute angles in triangle A? How do you know? 45° b/c the shapes are ≅	
I can describe a sequence that will make congruent figures coincide.	Using the picture above, describe a sequence that will make the figure A coincide with figure B.	Start at A ① reflect over the y axis ② translate right 4 units OR Start at A ① Rotate 90° CL around the origin ② Translate right 4 units
REFLECTION:		

5.0	Clearly and accurately shows understanding with no conceptual errors in reasoning or conclusions.
4.5	Clearly and accurately shows understanding with only calculation and/or copy errors.
4.0	Correct answer with no support Or One minor error in reasoning demonstrated.
3.5	Several minor errors in reasoning or conclusions
3.0	Shows some understanding but makes major errors in reasoning or conclusions.
2.5	Some mathematical effort is made but shows little understanding.
2.0	No Attempt or irrelevant answer