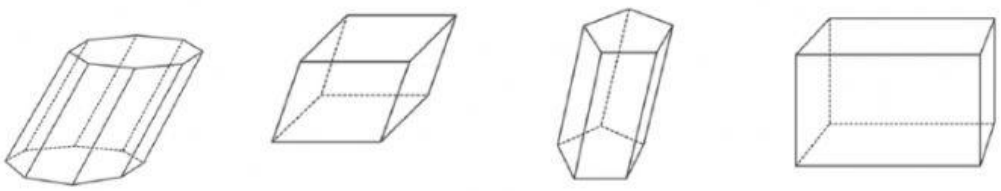
Geometry Test

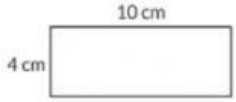
PART 1: Multiple Choice

1) Which of the following shapes is a right prism?

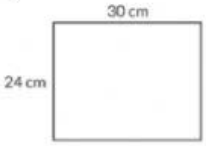
a) b) c) d)



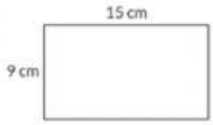
2) Which of the following rectangles are similar to this one:



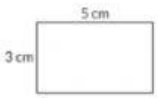
a)



b)



c)



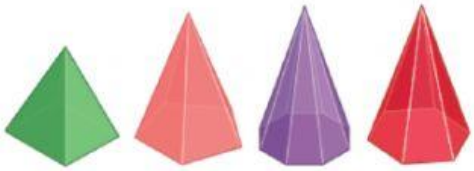
d)

3) Imagine that each cube in this structure accounts for 4 metres. How much space would it take up in length?

a) 6 metres b) 2 metres

c) 12 metres d) 16 metres

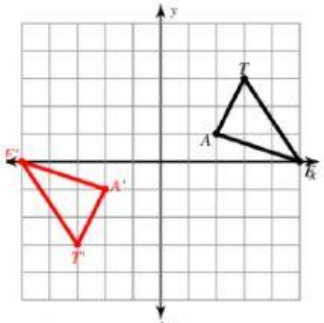
4) These 3D figures are examples of what type of shape?



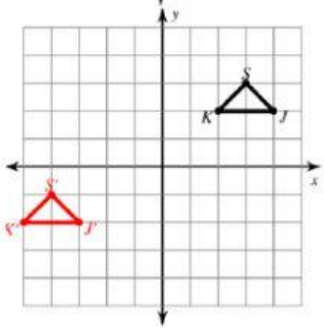
a) Prisms b) Right Prisms

c) Pyramids d) Cylinders

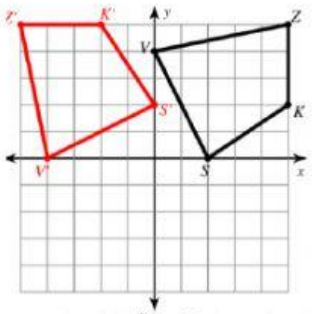
PART 2: Match each chart to the transformation description.

5) 

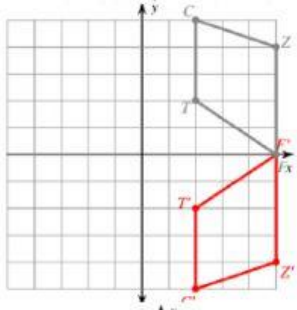
A translation 7 left and 4 down

6) 

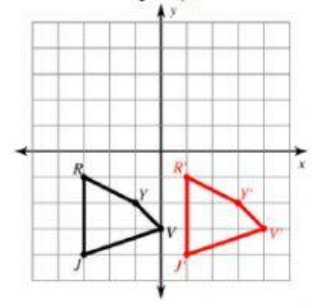
A reflections across the x-axis

7) 

A rotation of 180°

8) 

A translation 4 right

9) 

A clockwise rotation of 270°

PART 3: Dilatations and Similar Shapes

10) Do the following scale factors mean an enlargement or reduction?

a) Scale factor: 4

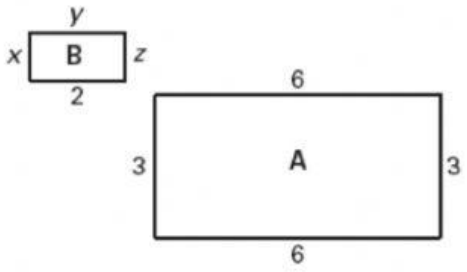
b) Scale factor: 1/2

c) Scale factor: 0.4

d) Scale factor: 10

11) For each of the following similar shapes, determine the missing side lengths.

a)



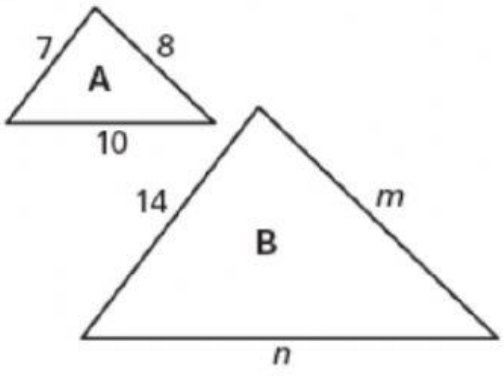
X =

Y =

Z =

Scale Factor =

b)

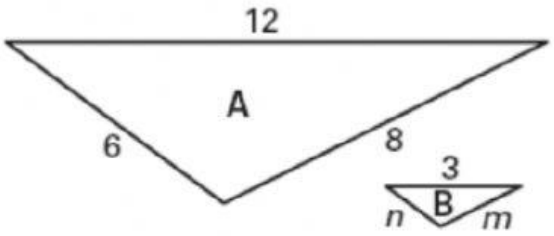


M =

N =

Scale Factor =

c)

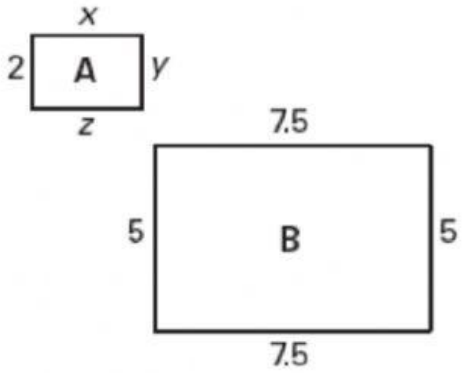


M =

N =

Scale Factor =

d)



X =

Y =

Z =

Scale Factor =

12) Using a rule and pencil on a separate piece of paper, draw a triangle and then dilatate the shape with a scale factor of 3. Make sure to include all of your measurements. When you are finished, submit this test, and upload this question to the Assignment on the HUB titled "GEOMETRY TEST QUESTION 12"