

Spring Hill International School 1st Assessment

Scholastic Year 2020/ 2021

Student's Name:

Class & Section: Grade 8

Teacher's Name: Raghda Ziad

Subject: Math / Checkpoint

Test Duration: 30 mins

Date: 2 / March. / 2021

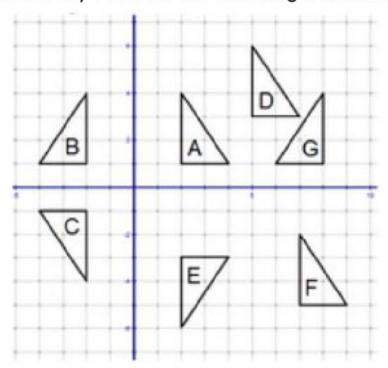
No. of Questions: 4

No. of Pages: 5

Question Number	Q.1	Q.2	Q.3	Q.4	Total Mark
Student's Mark					
Question Mark	5	5	5	10	25



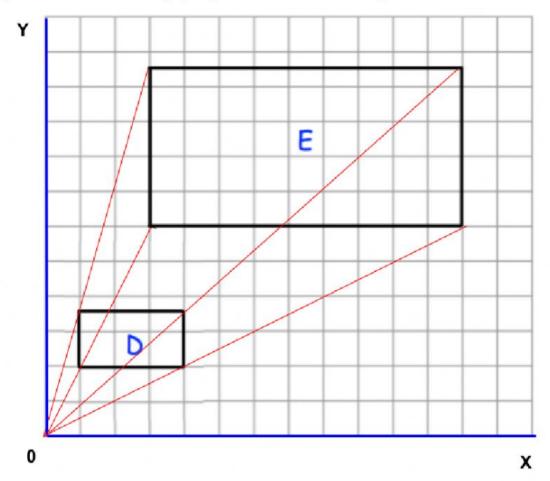
Question no.1: Fully describe the following transformation as shown



G to E	Rotation , anti-clockwise , center (5,-1) , 180 degree					
A to G	Reflection around the line X = 5					
B to C						
A to D						
A to E						
A to C						
A to F						

Question no.2: Enlargement

A) Use the following graph to answer the questions below



What's the center and the scale factor of the shown enlargement

Center of enlargement (,)

Scale factor

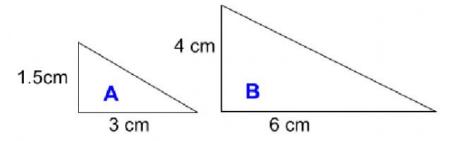
If rectangle E was enlarged by a scale fator 20 to give rectangle F. Write down the length and width of rectangle F :

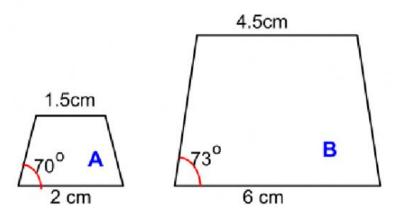
Length

Width



B) In each shape explain why B cannot be an enlargement of A





Question no.3: Tesselations

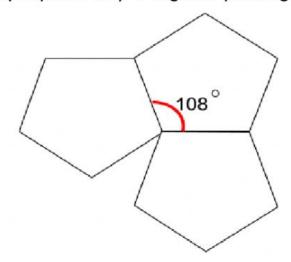
A) The table shows the interior angles for different regular polygons .

Select the regular polygons that can be tessellated

Number of sides	Interior angle	
3	60°	
4	90°	
5	108°	
6	120°	
7	128.6°	
8	135°	



B) Explain why a regular pentagon does not tessellate

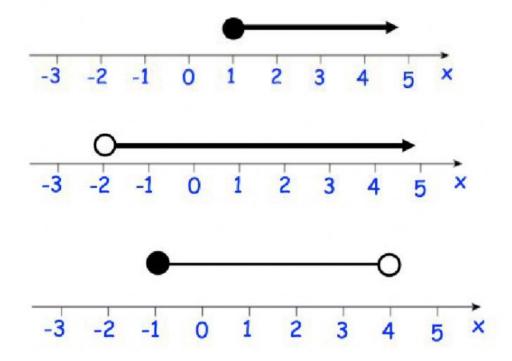


C) Are these statements true or false

Any quadrilateral can be tessellated	True	False
A regular octagon tessellates	True	False
A regular polygon will only tassellates if	True	False
it's interior angle is a factor of 360°		

Question no.4: Inequalities

A) Write down the inequalietes sown in the following diagrams





B) Solve the following inequalities

$$4 + 2X > X + 7$$

$$3(2X - 7) \ge 33$$

C) Write down all the integer values of X that satisfies the following inequalities