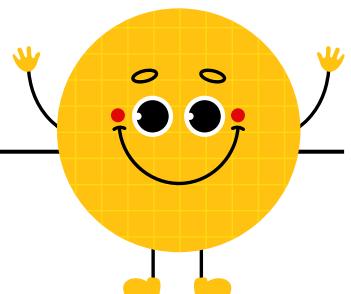
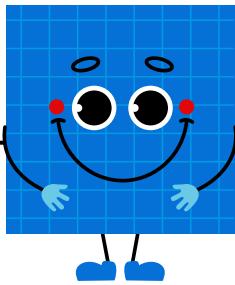




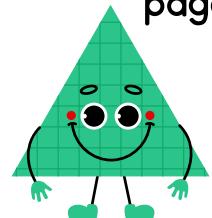
virtual au pair

# grade 4

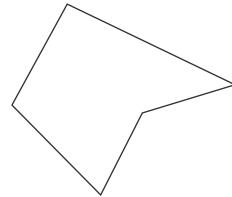
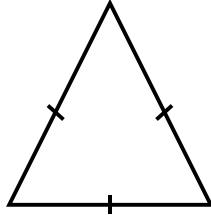
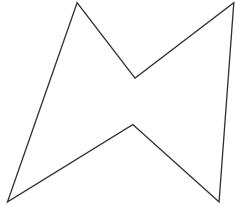
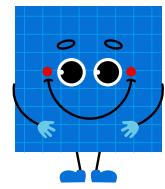
# 2D shapes



- properties of 2D shapes
- characteristics
- draw 2D shapes
- 2D shapes in 3D figure

**Question 1: What shape's characteristic is mentioned here?**

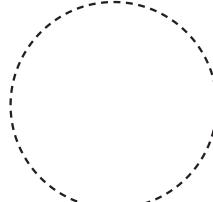
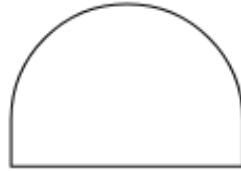
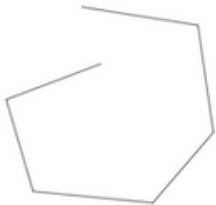
- 1.1) A shape with four sides of equal length and four angles of equal size. \_\_\_\_\_
- 1.2) Two pairs of opposite sides of equal length and four angles of equal size. \_\_\_\_\_
- 1.3) Three straight sides : \_\_\_\_\_
- 1.4) Four sides of equal length and opposite angles of equal size. \_\_\_\_\_
- 1.5) 7 straight sides : \_\_\_\_\_
- 1.6) Four straight sides with adjacent sides of equal length: \_\_\_\_\_
- 1.7) 2D shape with one curved side: \_\_\_\_\_
- 1.8) 8 straight sides : \_\_\_\_\_
- 1.9) Four straight sides with one pair of opposite sides parallel : \_\_\_\_\_
- 1.10) Five straight sides, all of equal length: \_\_\_\_\_

**Question 2: Write under each shape: polygon/non-polygon.**

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**Question 3: Study the following table and answer the questions.**

1		
2		
3		
4		

3.1) Are all the shapes in the table polygons? Give a reason

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3.2) Which side of the table will be regular polygons? Give a reason

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3.3) What is meant by irregular polygons?

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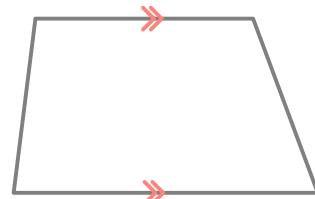
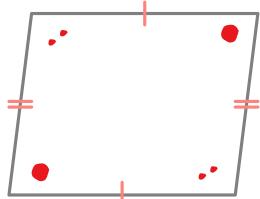
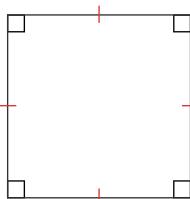
3.4) Could both shapes in the third row be called pentagons? Give a reason?

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3.5) Give a suitable name for each of the shapes in row 4 and explain the difference between the two shapes. The names of the shapes are not exactly the same.

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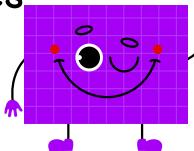
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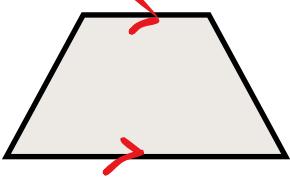
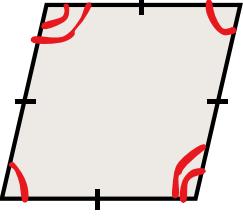
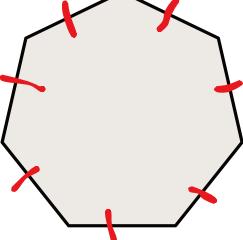
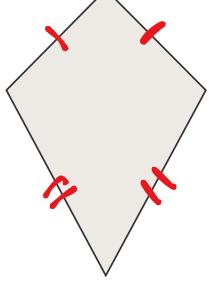
**Question 4: Name the shape by looking at the properties given.**

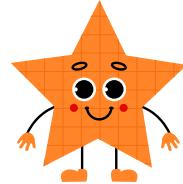
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**Question 5: Complete the table.**

shape	curved sides straight sides	characteristics	regular or irregular
			
name: _____			
			
name: _____			
			
name: _____			
			
name: _____			

**question 6: discuss differences and similarities**

6.1) Name one similarity between a square and a rhombus.

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6.2) Name one difference between a square and a rhombus.

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6.3) Name one similarity and one difference between a rectangle and a parallelogram.

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6.4) Name one difference and one similarity between a regular and irregular hexagon.

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6.5) Name one difference and one similarity between a square and a triangle.

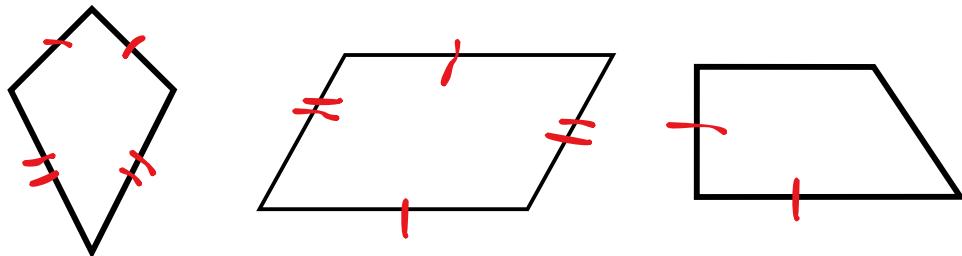
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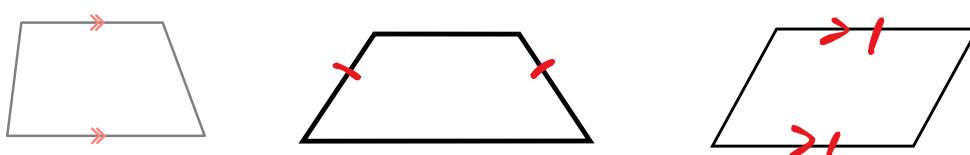
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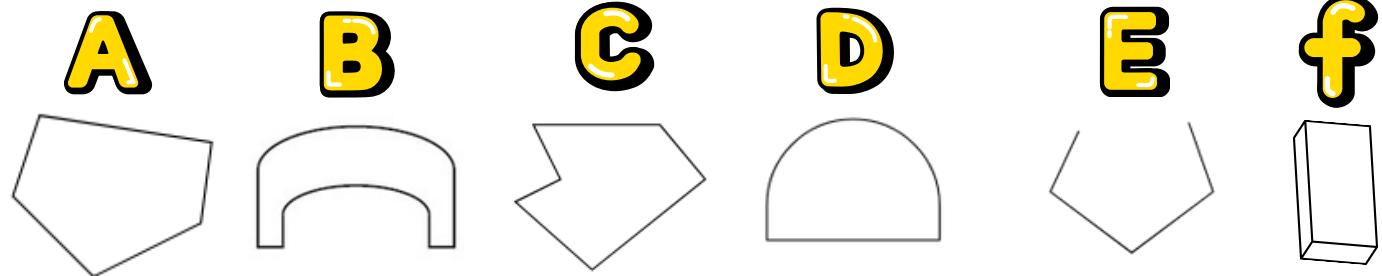
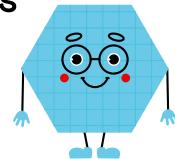
**question 7: terms related to properties**

7.1) Select the shapes where it is indicated that adjacent sides are of equal length. Mark with a cross.



7.2) Which shape would fit the property: one pair of opposite sides equal in length, but not parallel.



**Question 8: Study the shapes and answer the questions.**

8.1) Which shapes have curved sides as well as straight sides? \_\_\_\_\_

8.2) Which shapes are polygons? \_\_\_\_\_

8.3) Why would shape E not be considered a polygon?  
\_\_\_\_\_

8.4) What shape is a hexagon? \_\_\_\_\_

8.5) What shape is a pentagon? \_\_\_\_\_

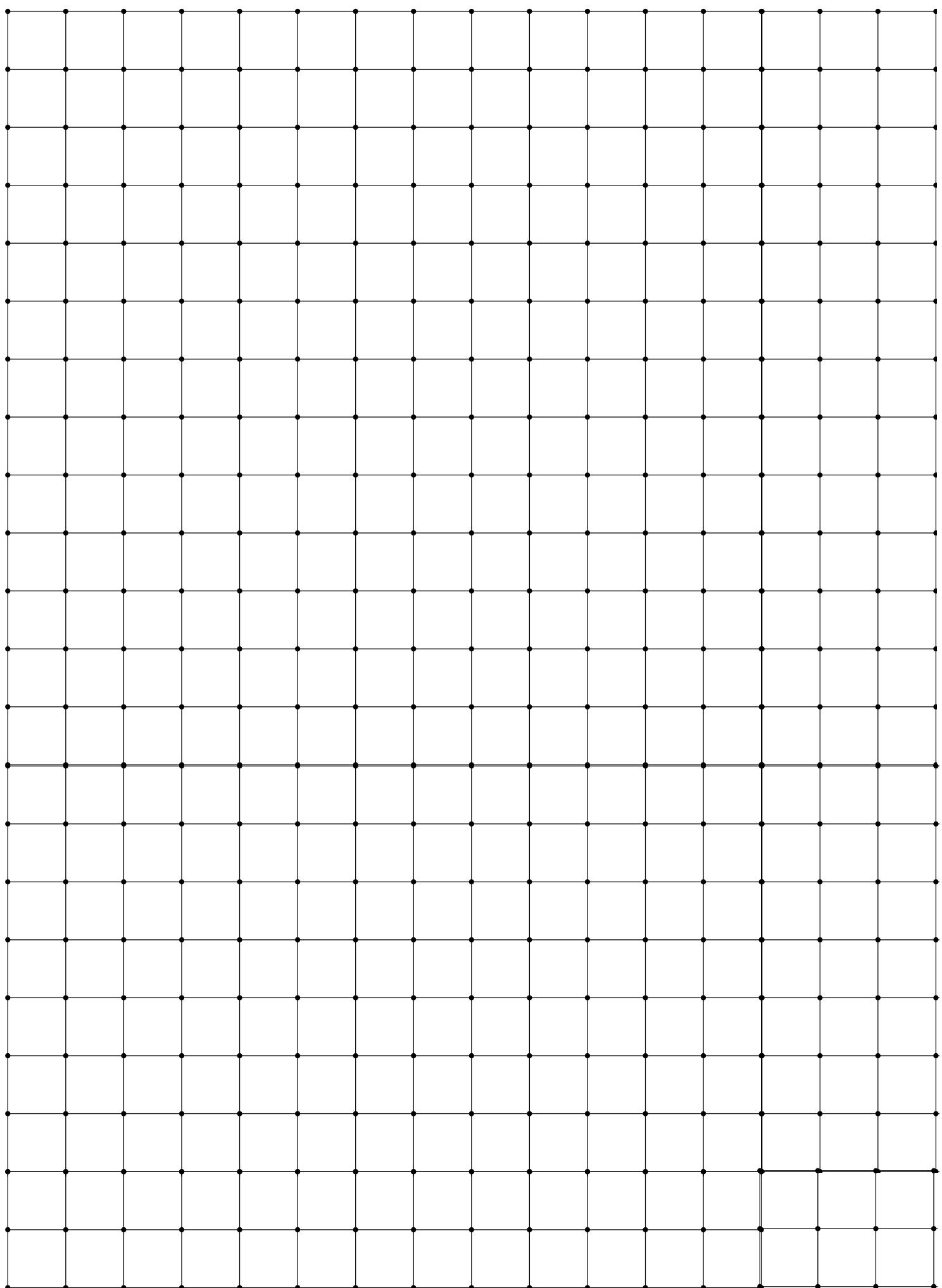
8.6) Is F a polygon? Give a reason  
\_\_\_\_\_

**Question 9: Draw 2D shapes**

9.1) Draw a freehand sketch of a rhombus and a kite and indicate all the properties.

9.2) Use the graph paper on the next page and draw the following:

- a quadrilateral with sides each of 5 units
- A triangle with a base of 5 units and the other two sides both of 4 units.
- a rectangle with length 6 and width 3
- a trapezium with a base of 8 and an opposite side of 4, side of 3 each

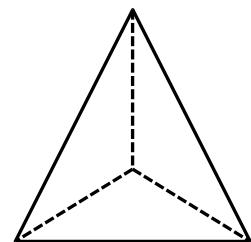
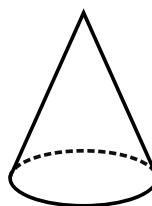
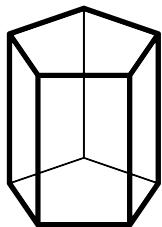
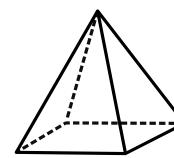
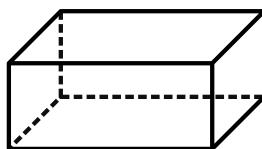




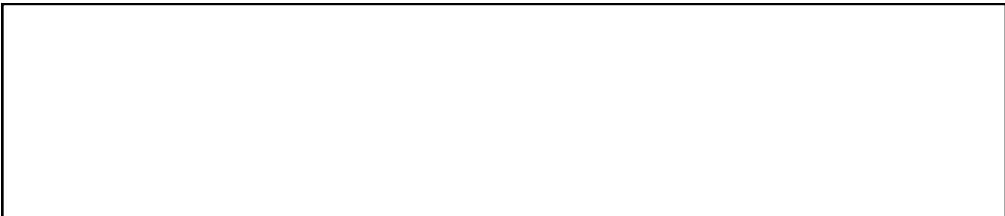
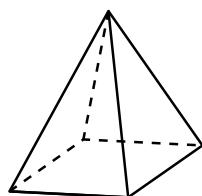
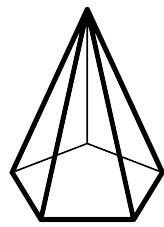
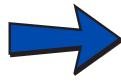
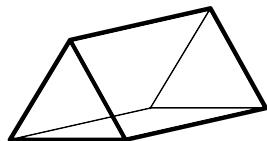
## Question 10: 2D shape as basis of 3D shapes



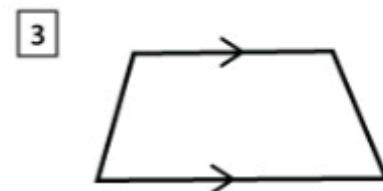
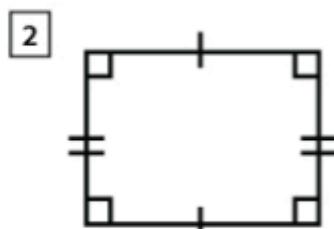
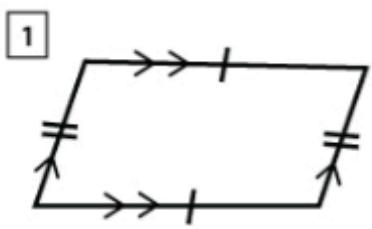
10.1) Write the base of each 3D figure below.



10.2) Draw which 2D shapes will build the 3D figure.



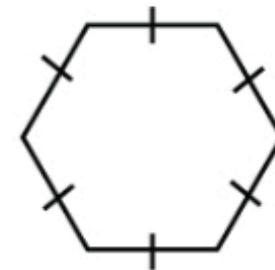
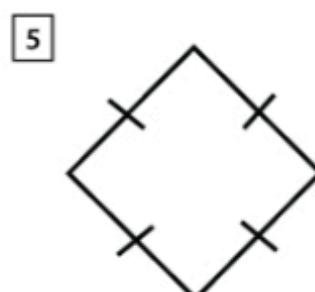
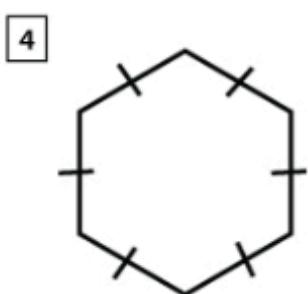
10.3) If you have 6 regular quadrilaterals, what 3D figure can you build with them?

**Question 11: Name each shape**

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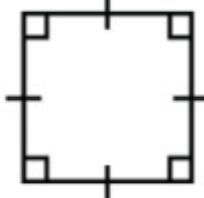
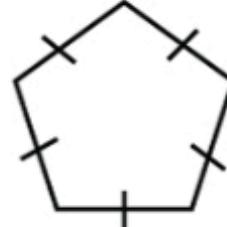
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**7****8**

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**Question 12: Indicate how many vertices and straight sides each shape has.**

vertices

straight sides

2

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---

3

---

---

4

---

---

1

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