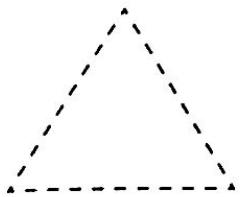
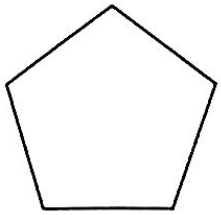
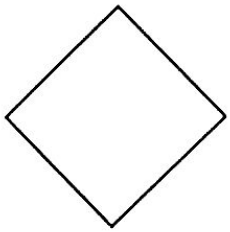
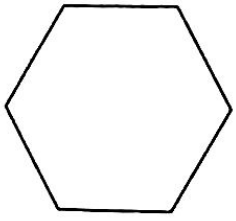
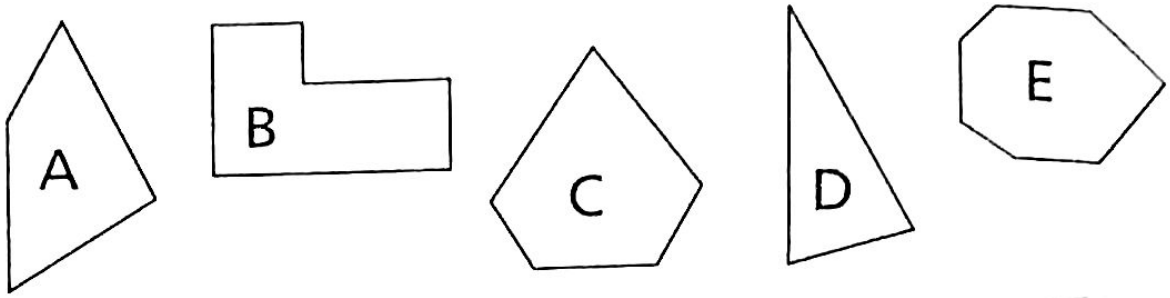
Counting sides on 2D shapes

1 Complete the table.

Shape	Name	Number of sides
	tri_ng_e	
	pent_g_n	
	_ _ _ _ _ r e	
	r_c_a_g_e	4
	hex_g_n	

2 Match the shape to the sentence.



There is one sentence for each shape.

Shape D has ☐ sides.

Shape A has ☐ sides.

Shape ____ has more than six sides.

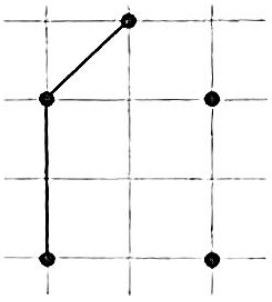
Shape ____ has five sides.

Shape ____ has an even number of sides.

3 Complete the drawings.

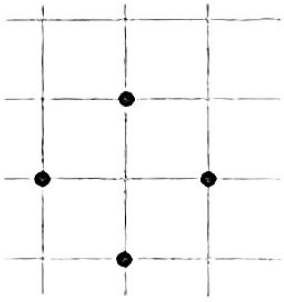
How many sides does each shape have?

A



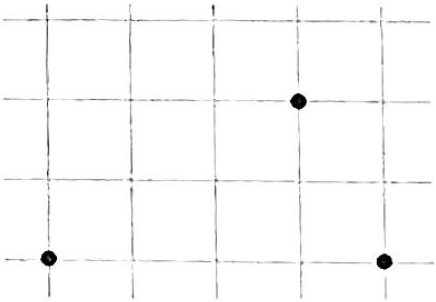
☐ sides

B



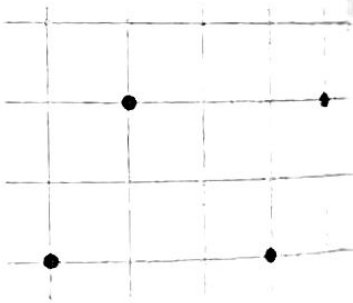
☐ sides

C



☐ sides

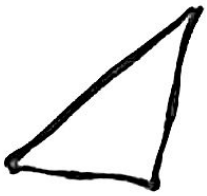
D



☐ sides

CHALLENGE

4 a) Rob makes five triangles.



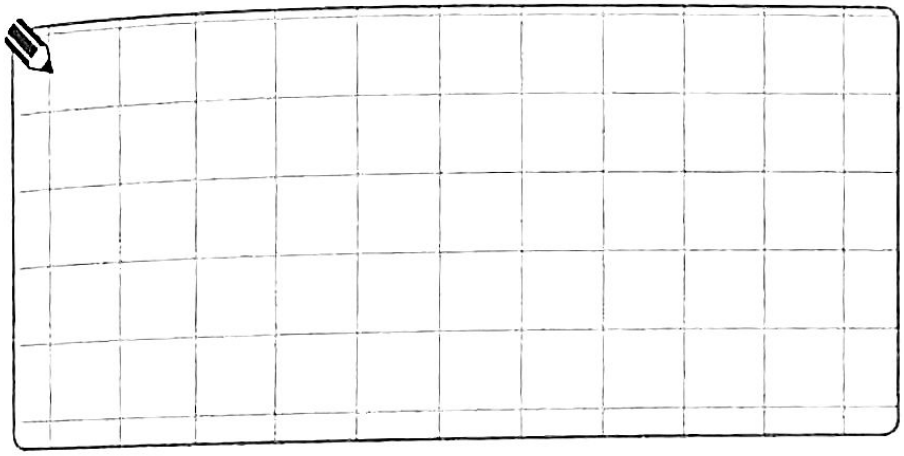
To make five triangles,

he needs ☐ sticks.

b) Isla makes five pentagons.

To make five pentagons, she needs ☐ sticks.

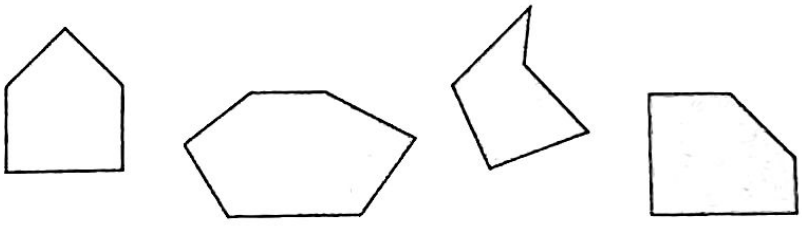
c) Jasmine uses 12 sticks. She makes three shapes. What shapes could she have made?



They could all be the same, or all be different.

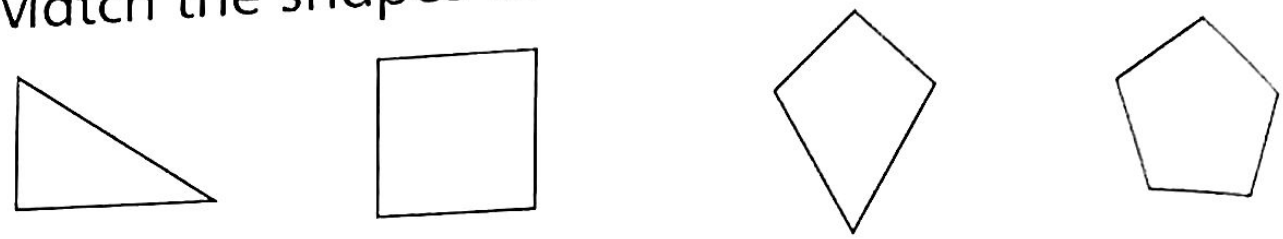
Reflect

Which shape is the odd one out? Why?



Counting vertices on 2D shapes

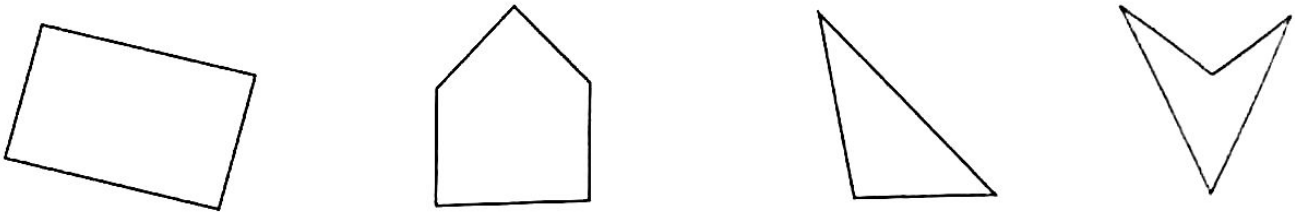
1 Match the shapes to the number of vertices.



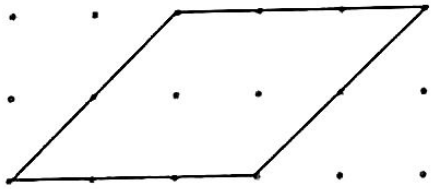
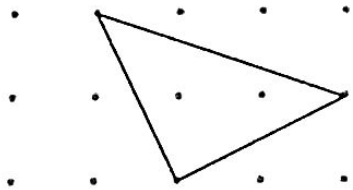
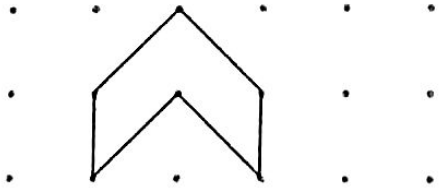
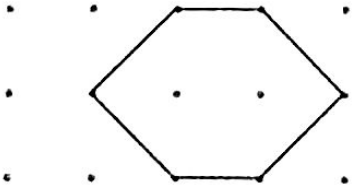
3 vertices

4 vertices

5 vertices



2 Complete the table.

Shape	Number of vertices
	
	
	
	

3 Complete the sentences with the words below.

Use each word once.

square **pentagon** **hexagon** **triangle** **rectangle**

A _____ has five vertices and five sides.

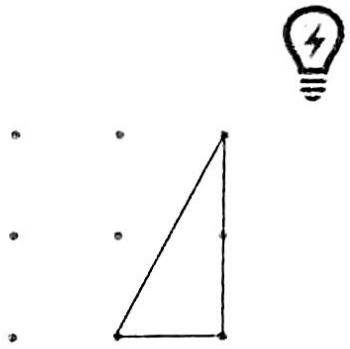
A shape with four vertices could be a _____ or a _____ .

A _____ has fewer vertices than a square.

Every shape with six vertices is called a _____ .

4

This shape has four vertices because it touches four dots.

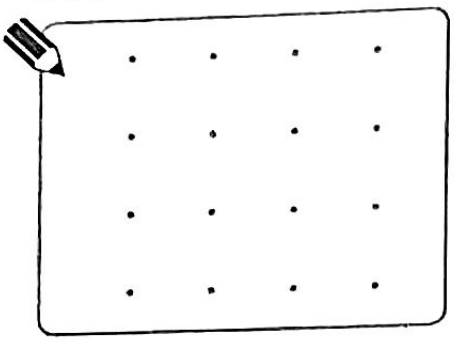


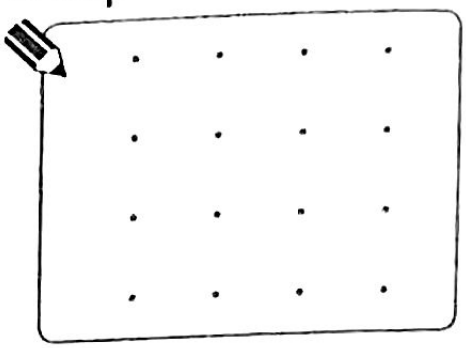
Explain Toby's mistake.

_____

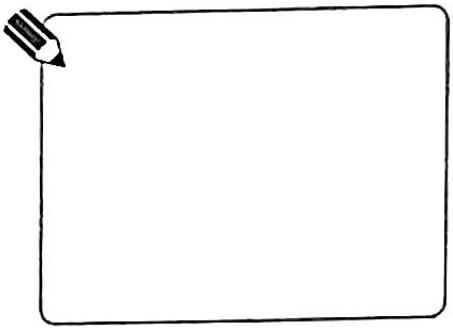
_____

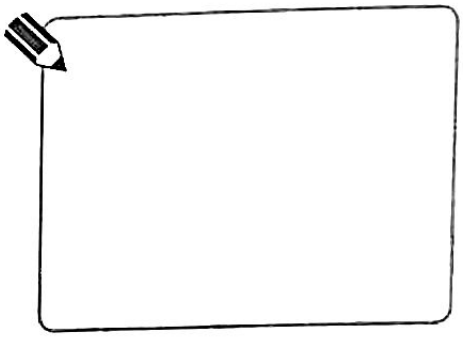
5 Draw two different shapes with four vertices.



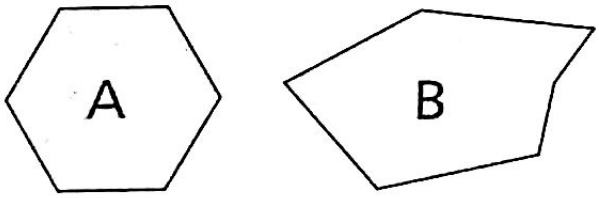


Draw two different shapes with five vertices.





Reflect



It's easy to count the vertices on shape A. It's harder to count the vertices on shape B.

Explain what is the same and what is different.

Think about where the vertices are.