





Can I count vertices on 2d shapes?

1 Complete the sentences to describe the shapes.

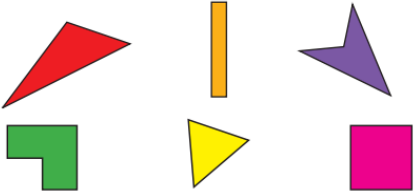
a)  A pentagon has vertices.

b)  A triangle has vertices.

c)  A _____ has vertices.

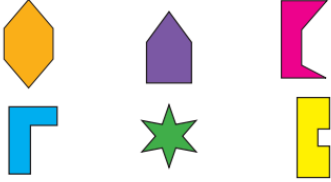
d)  A _____ has vertices.

2 Which shapes have 4 vertices?





Compare answers with a partner.



3 Which shapes have 6 vertices?





Talk to a partner about your answers.




4 How many vertices does each shape have?

a)  d) 

b)  e) 

c)  f) 

How did you count the vertices?

Shape	Number of Sides	Number of Vertices	Name of Shape
	5		
			
			

5



My shape has more vertices than a triangle, but fewer than a hexagon.

What shape could Ron have?

Compare answers with a partner.

6

Rosie is making a pattern out of shapes.

a) How many vertices are in each term of her pattern?



b) What do you notice?

c) How many vertices will the next term have?

d) Create your own pattern with shapes.

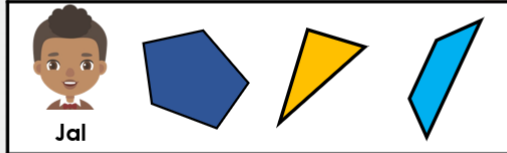
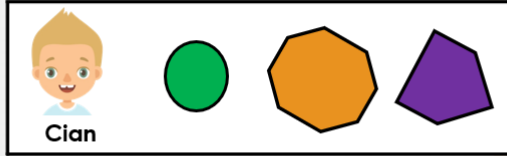
Count the number of vertices in each term.

Write your answers to question 6 here.

Challenge

Cut out the question and stick it in your book. Show how you worked out the answer.

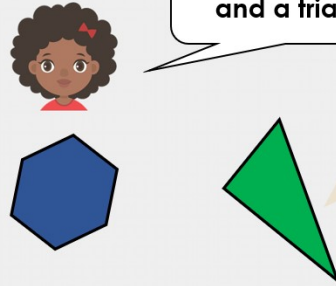
Cian and Jal each have some shapes.



How many vertices do they each have?
Who has the most number of vertices?

Karen wants to collect a total of 16 vertices. She says,

I need 2 hexagons
and a triangle.



Is she correct? Explain how you know.

Complete the table with the shapes below.

more than 4 vertices	4 vertices or fewer



12a. Name the shape.

I have three more vertices
than a pentagon.