

Maths – Friday 22nd January



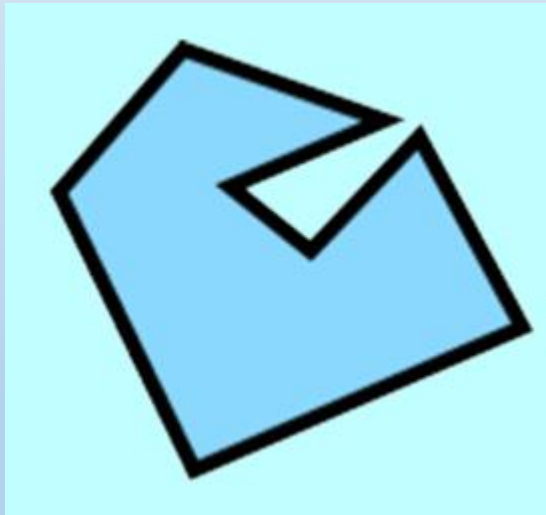
WALT: Count vertices on 2D shapes

Retrieval practice:

Are all sides straight?

What can help you to count the sides accurately?

What shape is this?



Retrieval practice:

Are all sides straight?

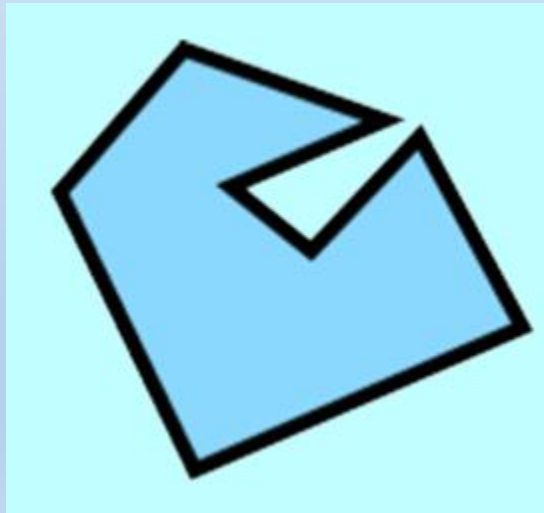
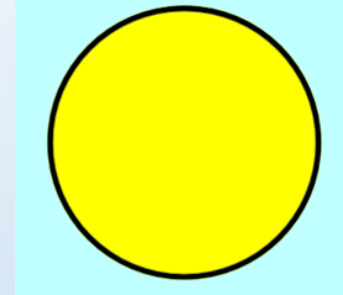
No. A circle is an example of a shape with a curved side.

What can help you to count the sides accurately?

Marking the sides as you count them.

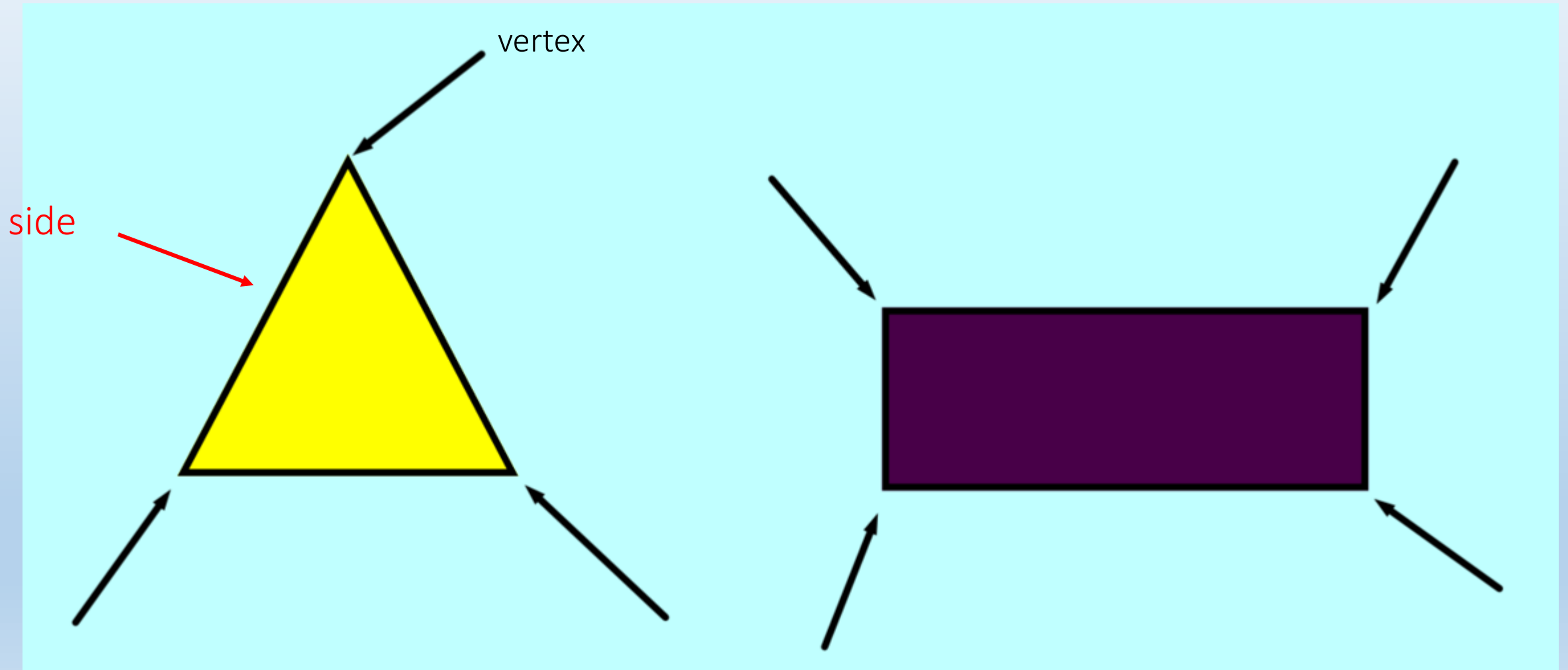
What shape is this?

An octagon because it has 8 sides. This is an irregular shape.



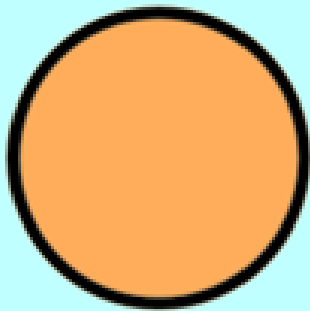
What are vertices?

A vertex is where 2 sides meet at a point.
Often called a corner.



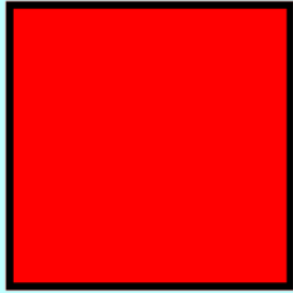
Can you think of a shape that would have no vertices?

Can you think of a shape that would have no vertices?

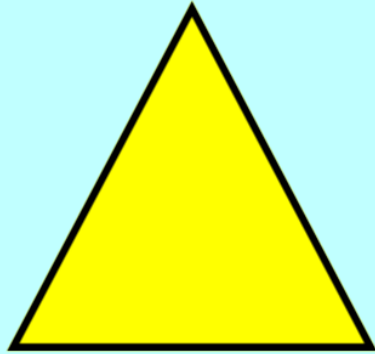


circle

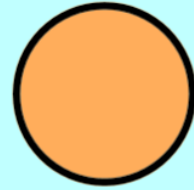
Properties: Vertices



square



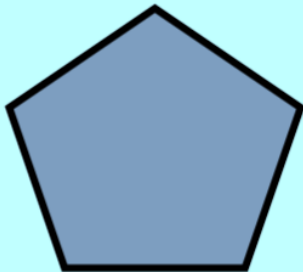
triangle



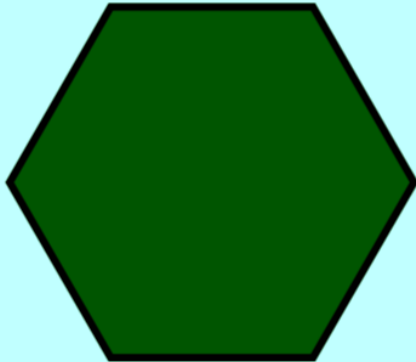
circle



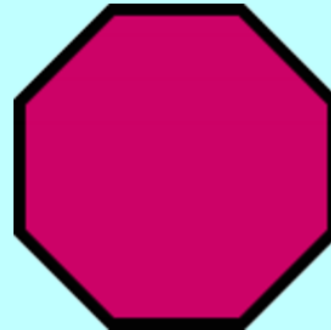
rectangle



pentagon



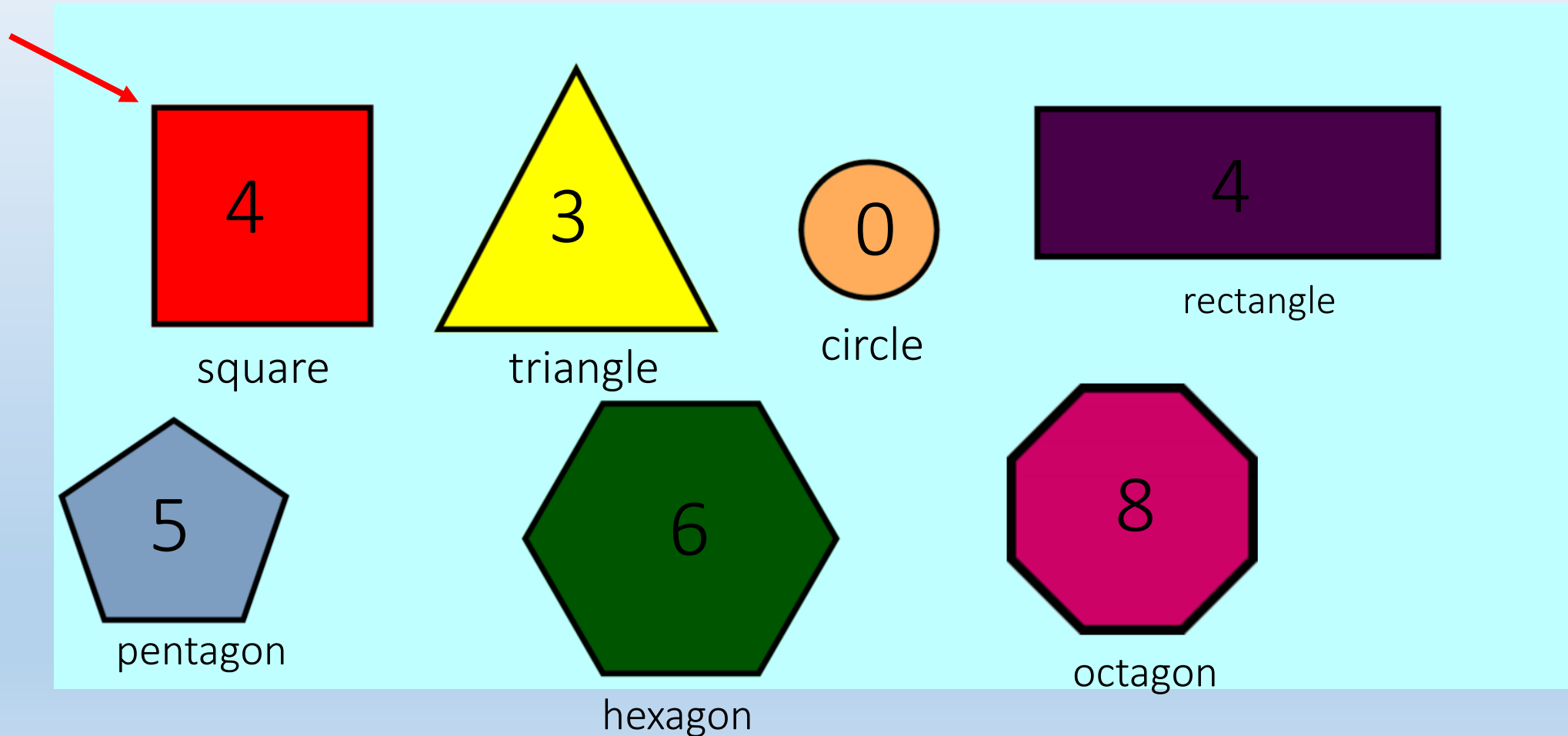
hexagon



octagon

Properties: Vertices

What do you notice about the number of sides and vertices?



One to discuss

Amir says:

My shape has half the number of vertices as an octagon.



What shape could he have?

One to discuss

Amir says:

My shape has half the number of vertices as an octagon.



What shape could he have?

Square
Rectangle


Your task today

Count vertices on 2D shapes



1 Complete the sentences to describe the shapes.

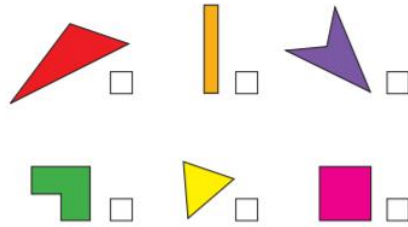
a) 
A pentagon has vertices.

b) 
A triangle has vertices.

c) 
A has vertices.

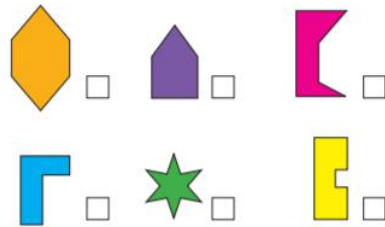
d) 
A has vertices.

2 Tick the shapes with 4 vertices.



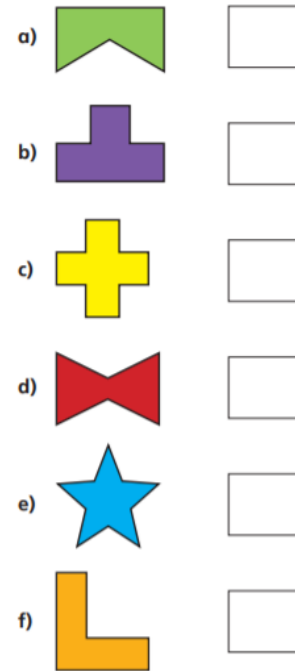
Compare answers with a partner.

3 Tick the shapes with 6 vertices.



Talk to a partner about your answers.

4 How many vertices does each shape have?



How did you count the vertices?

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.



Count vertices on 2D shapes

1 Complete the sentences to describe the shapes.

a)



A pentagon has vertices.

b)



A triangle has vertices.

c)



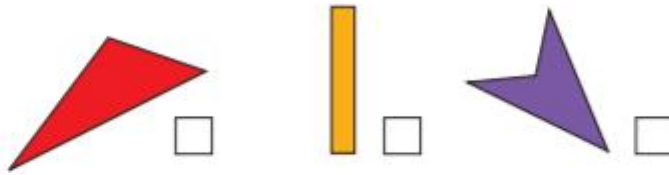
A _____ has vertices.

d)



A _____ has vertices.

2 Tick the shapes with 4 vertices.



Compare answers with a partner.

3 Tick the shapes with 6 vertices.



Talk to a partner about your answers.

4 How many vertices does each shape have?



How did you count the vertices?

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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.