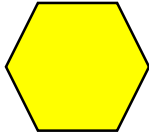


# Count vertices on 2D shapes



Problem solving and reasoning cards.

This shape has the same number of vertices as the total number of vertices in 2 squares.



True or false?  
Explain your answer.




What shape am I? \_\_\_\_\_

I have half the number of vertices than a hexagon

Draw it:



Circle the mistake.

Name	Shape	Vertices
Triangle		3
Pentagon		5
Heptagon		8

Explain your answer.

Sue says,



My shape has more vertices than a square but less than an octagon.

What shapes could Sue be thinking of?

Dom says,



My shape has double the number of vertices of a rhombus.

What shape has Dom got and how do you know?

Tick (✓) the box of the shapes with the most vertices.

a) 4 squares.

b) 2 hexagons.

c) 3 pentagons.

How many vertices does each group have?

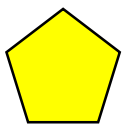
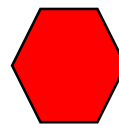
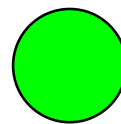
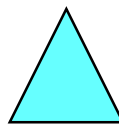
What shape am I? \_\_\_\_\_

I have less than 6 vertices but more than 4

Draw it:



What shape am I? The vertices equal:



$3 \times 2$ ? \_\_\_\_\_

A quarter of 20? \_\_\_\_\_

Half of the red shape? \_\_\_\_\_

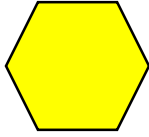
How many vertices does the remaining shape have? \_\_\_\_\_

# Count vertices on 2D shapes



Problem solving and reasoning cards.

This shape has the same number of vertices as the total number of vertices in 2 squares.



True or false?

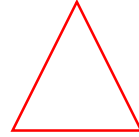
Explain your answer.

False, this is a hexagon so it has 6 vertices.  
Two squares have 8 vertices in total.




What shape am I? triangle

I have half the number of vertices than a hexagon

Draw it:



Circle the mistake.

Name	Shape	Vertices
Triangle		3
Pentagon		5
Heptagon		8

Explain your answer. A heptagon has 7 vertices not 8.

Sue says,



My shape has more vertices than a square but less than an octagon.

What shapes could Sue be thinking of?

Pentagon (5 vertices), hexagon (6 vertices) or heptagon (7 vertices).

Dom says,



My shape has double the number of vertices of a rhombus.

What shape has Dom got and how do you know?

A rhombus has 4 vertices. Double 4 is 8.  
Dom's shape is an octagon as this has 8 vertices.

Tick (✓) the box of the shapes with the most vertices.

a) 4 squares.

b) 2 hexagons.

c) 3 pentagons.

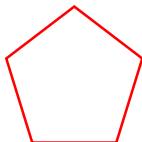
How many vertices does each group have?

A = 16 vertices B = 12 vertices C = 15 vertices

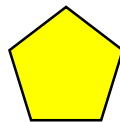
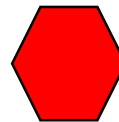
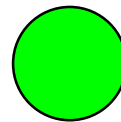
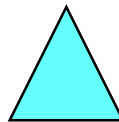
What shape am I? pentagon

I have less than 6 vertices but more than 4

Draw it:



What shape am I? The vertices equal:



$3 \times 2$ ? hexagon

A quarter of 20? pentagon

Half of the red shape? triangle

How many vertices does the remaining shape have? 0