




# Features of Pyramids



Name \_\_\_\_\_ Date \_\_\_\_\_

- 1 Colour the different faces that each shape has.  
Colour the identical faces the same colour.




Pentagonal Pyramid	
Triangular Pyramid	
Square Pyramid	



The pyramid of Khufu at Giza, is the largest Egyptian pyramid and is the only one of the Seven Wonders of the Ancient World still in existence.

Leonhard Euler was a brilliant Swiss mathematician. He discovered a relationship between the number of faces, vertices and edges on any polyhedron — a three-dimensional shape with flat sides. Euler found the number of faces + the number of vertices subtract 2 will give you the number of edges.

- 2 Test Leonhard Euler's formula on the following pyramids.

3D Object	Name	Faces	Vertices	Faces + Vertices - 2 =	Edges
a 	_____	_____	_____	_____	_____
b 	_____	_____	_____	_____	_____
c 	_____	_____	_____	_____	_____

- 3 Can you use Euler's formula to calculate how many edges on the following pyramids.

a triangular pyramid \_\_\_\_\_ b heptagonal pyramid \_\_\_\_\_ c decagonal pyramid \_\_\_\_\_