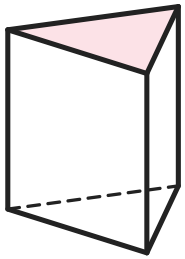
Faces, edges and vertices

1

How many faces, edges and vertices does this triangular prism have?



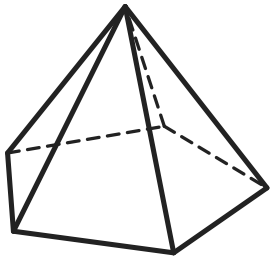
Faces 2 + ☐ = ☐

Edges 3 + ☐ + ☐ = ☐

Vertices 3 + ☐ = ☐

2

How many faces, edges and vertices does this pentagonal based pyramid have?



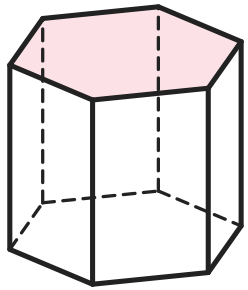
Faces ☐ + ☐ = ☐

Edges ☐ + ☐ = ☐

Vertices ☐ + ☐ = ☐

3

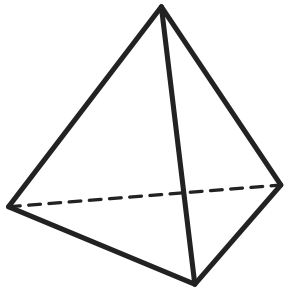
How many faces, edges and vertices does this hexagonal prism have?



☐ faces ☐ edges ☐ vertices

4

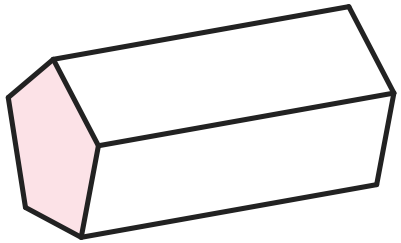
How many faces, edges and vertices does this triangular based pyramid have?



☐ faces ☐ edges ☐ vertices

5

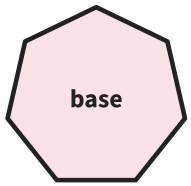
This pentagonal prism is lying on its side.
Its hidden edges are not drawn.
How many faces, edges and vertices does it have?



☐ faces ☐ edges ☐ vertices

6

There is no drawing.
How many faces, edges and vertices does a heptagonal based pyramid have?
A heptagon has 7 sides.



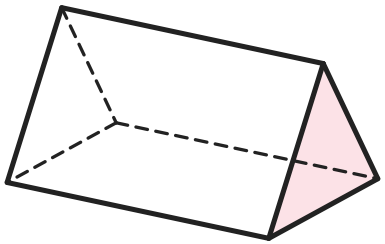
Faces ☐ + ☐ = ☐

Edges ☐ + ☐ = ☐

Vertices ☐ + ☐ = ☐

7

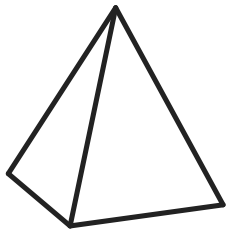
Ines paints each face of this wooden block a different colour. The block is a triangular prism. How many colours does she need?



Answer _____

8

Ola says this square based pyramid has 5 edges. Explain her mistake.
How many edges does it have?



_____

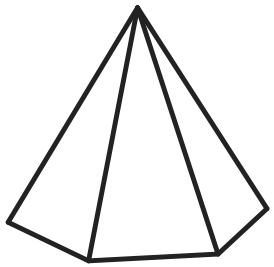
_____

Answer _____

Faces, edges and vertices *further practice*

9

This hexagonal based pyramid is drawn without its hidden edges.
How many faces, edges and vertices does it have?



faces ☐ edges ☐ vertices ☐

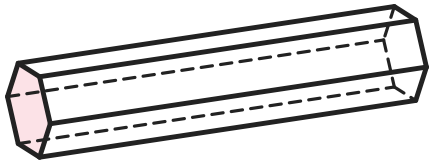
10

Complete the table.

Prism	Faces	Edges	Vertices
triangular prism	5		
cuboid		12	
pentagonal prism			10
hexagonal prism			

11

A new pencil, before it is sharpened, is a hexagonal prism. How many faces and how many edges does it have?

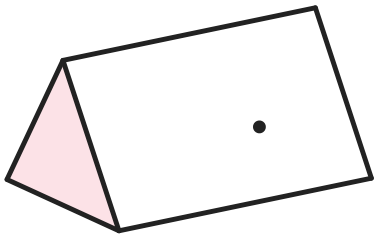


Faces _____

Edges _____

12

The hidden edges of this triangular prism are missing. The dot is its hidden vertex. Draw the hidden edges with dashed lines. How many are there?



Answer _____

13

Mo makes 3 square based pyramids. Each edge is a straw and each vertex is a ball of clay. How many (a) straws, (b) balls of clay does he need?

_____

(a) _____

(b) _____

14

A pyramid has 10 edges. What shape is its base? Name the pyramid.

_____

_____

Answer _____

15

Which has more vertices, a hexagonal prism or an octagonal based pyramid? How many more?

_____

_____

Answer _____

16

Leah says, "A shape with 5 faces must be a square based pyramid."
Is she right? Explain.

_____

_____

Answer _____