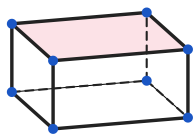


Faces, Edges and Vertices

ANSWERS

1

How many faces, edges and vertices does a cuboid have?



Dashed edges are hidden at the back.

6

faces

12

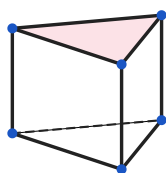
edges

8

vertices

2

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



5

faces

9

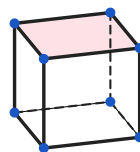
edges

6

vertices

3

How many faces, edges and vertices does a cube have?



6

faces

12

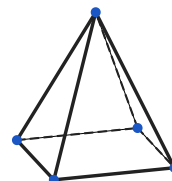
edges

8

vertices

4

How many faces, edges and vertices does a square based pyramid have?



5

faces

8

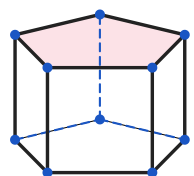
edges

5

vertices

5

How many faces, edges and vertices does a pentagonal prism have?



7

faces

15

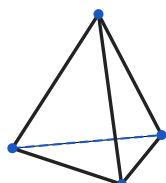
edges

10

vertices

6

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



4

faces

6

edges

4

vertices

7

A prism has 8 faces. What shape are its two end faces?

$8 - 2 = 6$ faces around the sides

Hexagons

Answer

8

A shape has 5 faces, 8 edges and 5 vertices. Is it a prism or a pyramid? Name it.

a pyramid: 4 triangles and a square

Square based pyramid

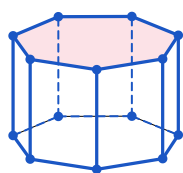
Answer

Faces, Edges and Vertices *further practice*

ANSWERS

9

How many faces, edges and vertices does a heptagonal prism have?



9

faces

21

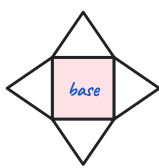
edges

14

vertices

10

This net folds to make a solid. How many faces, edges and vertices does the solid have?



5

faces

8

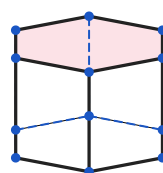
edges

5

vertices

11

A tea tin is a hexagonal prism. A small gold star is stuck on every vertex. How many stars are needed?



6 on the top and 6 on the bottom

12 stars

Answer

12

Which has more edges, a hexagonal based pyramid or a pentagonal prism? How many more?

pyramid 12 edges, prism 15 edges

the prism, 3 more

Answer

13

A prism has 16 vertices. How many edges does it have?

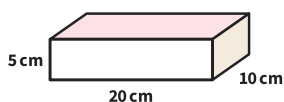
8 vertices on each end, so 8 sided ends

24 edges

Answer

14

A gift box is a cuboid 20 cm long, 10 cm wide and 5 cm high. Ribbon is stuck along every edge. How much ribbon is needed?



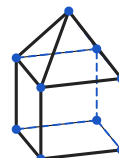
$4 \times 20 + 4 \times 10 + 4 \times 5$

140 cm

Answer

15

A model tower is a square based pyramid on top of a cube. How many faces, edges and vertices does the tower have?



9

faces

16

edges

9

vertices

16

Zara says a prism can have 10 edges. Is Zara right? Explain.

a prism has 3 edges for each side of its end: 9, 12, 15, ...

No

Answer