Name:

Exam Style Questions

3D Shapes
Edges, Faces, Vertices

Corbettmaths

Equipment needed: Pencil, ruler & pen

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

www.corbettmaths.com/contents

Videos 3, 5

Answers and Video Solutions

1. The names of five solid shapes are given.

triangular prism sphere cube cuboid cylinder

Three of them are drawn below.

A B C

Complete these statements.

Shape A is called a .....

Shape B is called a .....

Shape C is called a .....

(3)

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2. (a) How many faces does a cube have?

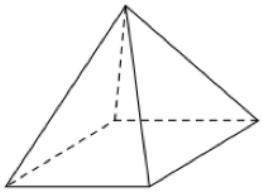
.....

(1)

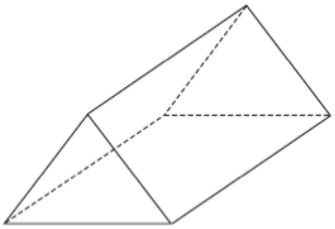
(b) Sketch a cube.

(1)

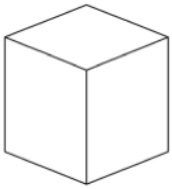
3. Below is a list of solid shapes and their names.



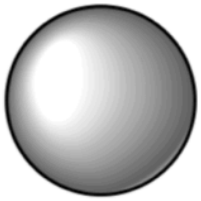
Sphere



Triangular Prism



Square-based Pyramid

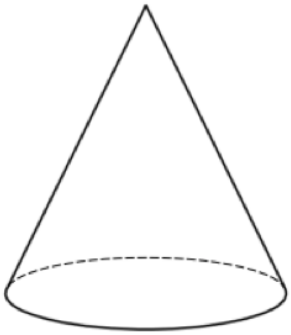


Cube

Match each shape to the correct name.

(4)

4. Shown is a solid shape.



(a) What is the mathematical name for the shape?

.....

(1)

The shape above is a cuboid.

(b) How many faces does a cuboid have?

.....

(1)

(c) How many edges does a cuboid have?

.....

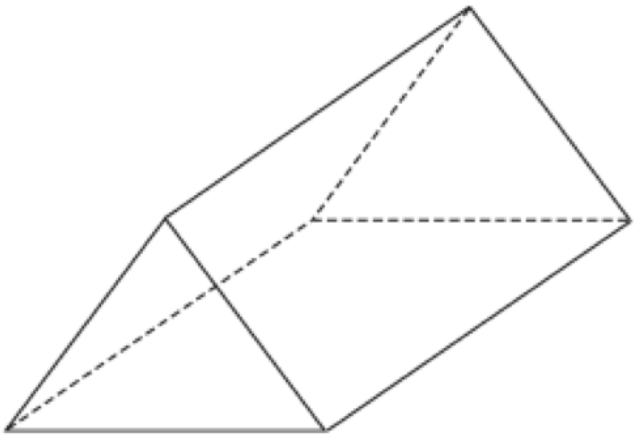
(1)

(d) How many vertices does a cuboid have?

.....

(1)

5. Below is a solid shape.



(a) What is the mathematical name for the shape?

.....

(1)

(b) Write down the number of vertices

.....

(1)

(c) Write down the number of faces

.....

(1)

(d) Write down the number of edges

.....

(1)

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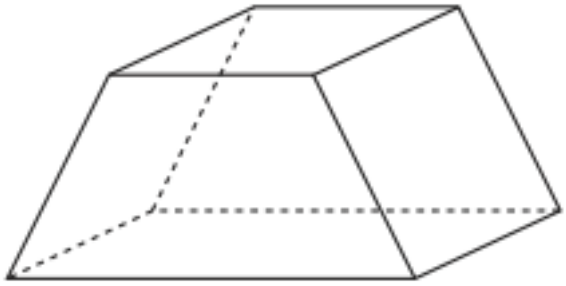
6. Circle the solid that has 5 vertices.

Cube	Triangular Prism
Square-based Pyramid	Cylinder

(1)

7. Below is a solid.



(a) Write down the number of faces

.....

(1)

(b) Write down the number of vertices

.....

(1)

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8. How many vertices does a pentagonal prism have?

5 10 15 20

(1)

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9. Circle the solid that has 6 faces.

pentagonal prism pentagon-based pyramid

hexagonal prism hexagon-based pyramid

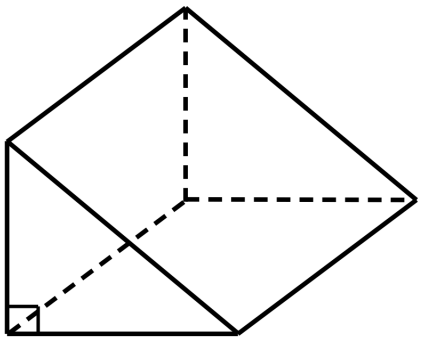
(1)

10. Circle the solid that has 18 edges.

pentagonal prism	pentagon-based pyramid
hexagonal prism	hexagon-based pyramid

(1)

11.



Shown above is a triangular prism.

Archie says

“the number faces add the number of vertices is 2 more than the number of edges.”

Show Archie is correct.

……

……

(2)

12. Complete the table below.

	Faces	Edges	Vertices
Cube			8
Square-based Pyramid	5		
Triangular Prism		9	

(6)

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13. The cross section of a prism is an **n** sided polygon.

Circle the number of edges that the prism has.

2n n + 2 n + 3 3n

(1)

---

14. The cross section of a prism is an **n** sided polygon.

Circle the number of faces that the prism has.

2n n + 2 n + 3 3n

(1)

15. The cross section of a prism is an **n** sided polygon.

Circle the number of vertices that the prism has.

2n n + 2 n + 3 3n

(1)

---

16. The base of a pyramid is an **n** sided polygon.

Circle the number of edges that the pyramid has.

n n + 1 n + 2 2n

(1)

---

17. The base of a pyramid is an **n** sided polygon.

Circle the number of faces that the pyramid has.

n n + 1 n + 2 2n

(1)

---

18. The base of a pyramid is an **n** sided polygon.

Circle the number of vertices that the pyramid has.

n n + 1 n + 2 2n

(1)