MATH

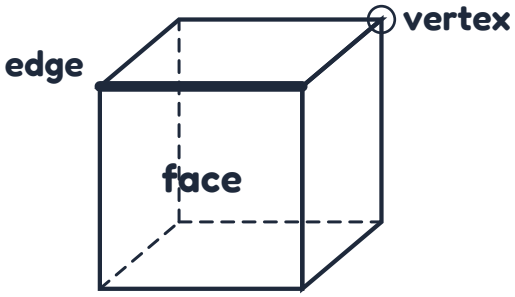
# Faces, edges and vertices

Name _____ Date _____

I can count the faces, edges and vertices of solid shapes.

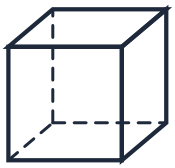
## 1 Faces, edges and vertices

A face is a flat surface. An edge is where two faces meet. A vertex is a corner, where edges meet. A cube has 6 faces, 12 edges and 8 vertices. Dashed lines in a drawing show the edges at the back.



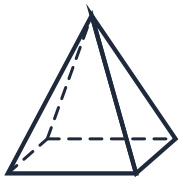

## 2 Count them on these shapes

Dashed lines are edges at the back.



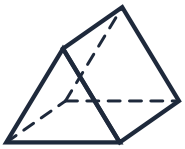
**Cube**

| faces | edges | vertices |
|---|---|---|
| | | |



**Square pyramid**

| faces | edges | vertices |
|---|---|---|
| | | |



**Triangular prism**

| faces | edges | vertices |
|---|---|---|
| | | |

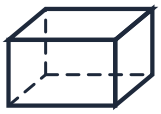
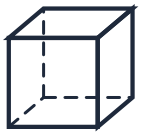
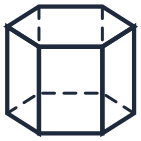
How did I do? ☆ ☆ ☆

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# Count faces, edges and vertices

Name _____ Date _____

I can count the faces, edges and vertices of solid shapes.

| Shape | Faces | Edges | Vertices |
|---|---|---|---|
|  Rectangular prism | | | |
|  Cube | | | |
|  Hexagonal prism | | | |
|  Square pyramid | | | |
|  Triangular prism | | | |
|  Triangular pyramid | | | |

**How did I do?** ☆ ☆ ☆

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# Faces and moves

Name _____ Date _____

I can name the flat faces and tell how a shape can move.

## 1 What shapes are the faces? Write how many.



Cube ☐ squares



Rectangular prism ☐ rectangles



Square pyramid ☐ squares ☐ triangles



Triangular prism ☐ triangles ☐ rectangles

## 2 Can it roll, stack or slide? Tick each one.

| | roll | stack | slide |
|---|---|---|---|
|  Sphere | ☐ | ☐ | ☐ |
|  Cylinder | ☐ | ☐ | ☐ |
|  Cone | ☐ | ☐ | ☐ |
|  Cube | ☐ | ☐ | ☐ |

**How did I do?** ☆ ☆ ☆

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# Word problems

Name _____ Date _____

I can use what I know about shapes to solve problems.

## 1 Read, think, answer

Draw the shapes to help you.

**1** Ali has 2 cubes. How many faces are there in all?

**Answer:**

**2** A cereal box is a rectangular prism. How many edges does it have?

**Answer:**

**3** How many more vertices does a cube have than a square pyramid?

**Answer:**

**4** Mia holds a shape with 5 faces: 1 square and 4 triangles. What is it?

**Answer:**

**How did I do?** ☆ ☆ ☆

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FOR TEACHERS AND PARENTS

# Answer key: faces, edges and vertices

## 1 Page 1

Cube 6 faces, 12 edges, 8 vertices; square pyramid 5, 8, 5; triangular prism 5, 9, 6.

## 2 Page 2

rectangular prism: 6, 12, 8; cube: 6, 12, 8; hexagonal prism: 8, 18, 12; square pyramid: 5, 8, 5; triangular prism: 5, 9, 6; triangular pyramid: 4, 6, 4 (faces, edges, vertices).

## 3 Page 3

Faces: cube: 6 squares; rectangular prism: 6 rectangles; square pyramid: 1 squares and 4 triangles; triangular prism: 2 triangles and 3 rectangles.

Moves: sphere: roll; cylinder: roll, stack, slide; cone: roll, slide; cube: stack, slide.

## 4 Page 4: word problems

1) 12 faces (2 x 6)
2) 12 edges
3) 3 more (8 - 5)
4) a square pyramid

## 5 Teaching tip

Stick a small sticker on each face of a real box as you count. Then run a finger along each edge and touch each vertex.



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