Name & Surname: _____

Solid Shapes!

Hold, count and describe!

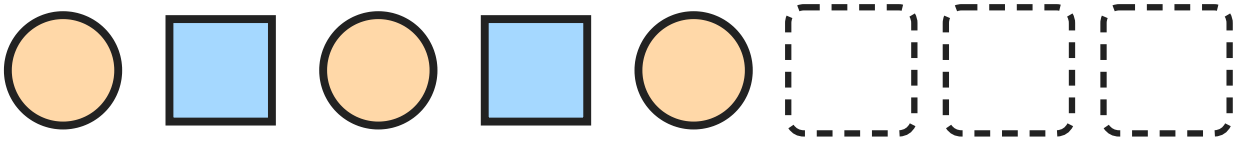
About 30 minutes Level ★★★☆☆

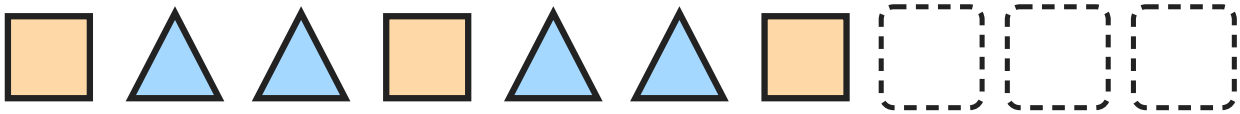
What is 3-D?

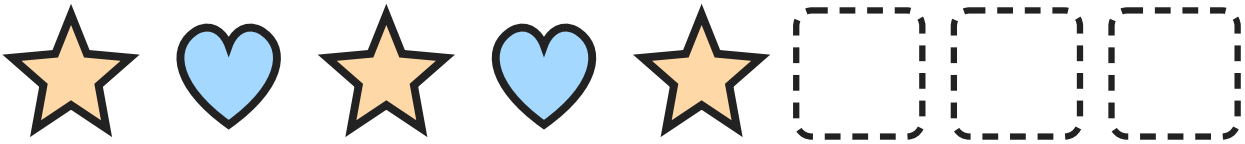
A **3-D shape** can be held and turned. A **face** is a side you touch. An **edge** is a line where sides meet.

- Cube has 6 faces, 12 edges, 8 vertices.
- Cylinder has 3 faces, 2 edges, 0 vertices.
- Sphere has 1 face, 0 edges, 0 vertices.

Say the shapes aloud, then draw the next three.

1 

2 

3 

Grown-up tip

Clap the pattern beat together first.

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Count in Order!

Key words

face: *a side you touch*

vertex: *a corner point*

cylinder: *a tin with 2 circles*

edge: *a line where sides meet*

cube: *a box with 6 square sides*

sphere: *a ball shape*

Number the steps to count faces, edges and corners in order.

Example done for you

1 Hold the shape

☐ Tap each corner

☐ Trace each edge

☐ Touch each face

Grown-up tip

Practise the steps on a real tin.

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Sort the Shapes!

Read the names and sort into flat and round groups.

Example done for you

~~cube~~ sphere cylinder pyramid

Flat faces only	Has a round face
cube	

Grown-up tip
Sort real boxes and tins at home.

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Find Odd One!

Look at each row and circle the odd one out.

1. sphere | cylinder | cube | pyramid

Why?

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2. circle | triangle | cube | square

Why?

---

3. vertex | cube | face | edge

Why?

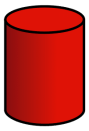
Grown-up tip
Ask why the odd one is different.

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Solid Shapes!

Cut out the cards. Turn them face down. Match each shape to its property.

Cut out the cards.

1 face, 0 edges, 0 vertices	 **cylinder**	 **cube**	 **vertex**
face	side you touch	3 faces, 2 edges, 0 vertices	line where sides meet
edge	 **sphere**	6 faces, 12 edges, 8 vertices	corner point

How did I do?

Circle a face for each line.

I can name a cube, cylinder and sphere.	☹	😐	☺
I can count faces, edges and vertices.	☹	😐	☺
I can describe a shape using its parts.	☹	😐	☺

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Answer sheet: Solid Shapes!

Task A

1. square, circle, square
2. triangle, triangle, square
3. heart, star, heart

Task B

1. Hold the shape 2. Touch each face 3. Trace each edge 4. Tap each corner

Task C

Flat faces only: cube, pyramid

Has a round face: sphere, cylinder

Task D

1. sphere (only one with no flat face)
2. cube (the only 3D shape)
3. cube (the only shape name)

Task E

face = side you touch

edge = line where sides meet

vertex = corner point

cube = 6 faces, 12 edges, 8 vertices

cylinder = 3 faces, 2 edges, 0 vertices

sphere = 1 face, 0 edges, 0 vertices

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