Year 2 maths: Sorting shapes and objects (Medium)

Maths · Shapes and space
Level: Medium

Student: _____ Date: _____

Instructions
- There are 10 questions. Read each one carefully.
- Write your answers on this paper. Use the space under a question to work it out.
- A grown-up can read a question aloud — that's fine.
- The answers are at the end. Check them together when you have finished.

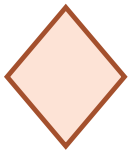
Questions

1. Tick every triangle.

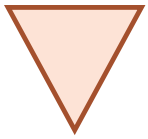
Tick every answer that fits.



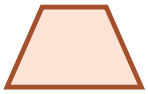
☐ **A**



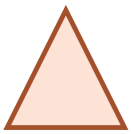
☐ **B**



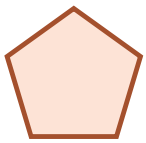
☐ **C**



☐ **D**



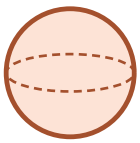
☐ **E**



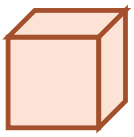
☐ **F**

2. Tick every object that will roll.

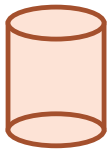
Tick every answer that fits.



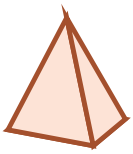
☐ **A**



☐ **B**



☐ **C**



☐ **D**

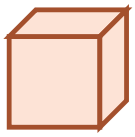
3. Which object can roll AND be stacked?

Circle one answer.

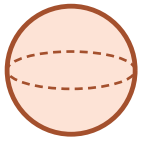
○ **A** a cylinder ○ **B** a cube ○ **C** a sphere

4. Tick every object you could stack in a tall tower of the same objects.

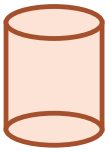
Tick every answer that fits.



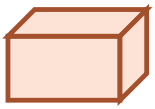
☐ **A**



☐ **B**



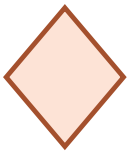
☐ **C**



☐ **D**

5. Tick every shape that has 4 corners.

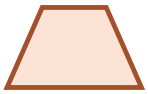
Tick every answer that fits.



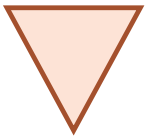
☐ **A**



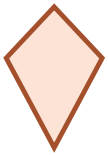
☐ **B**



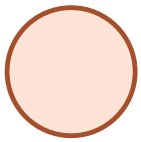
☐ **C**



☐ **D**



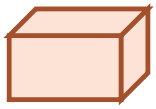
☐ **E**



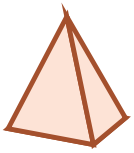
☐ **F**

6. Which object has the most flat faces?

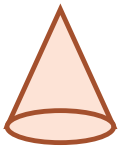
Circle one answer.



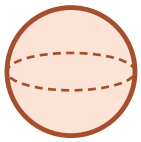
○ **A**



○ **B**



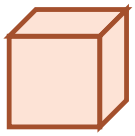
○ **C**



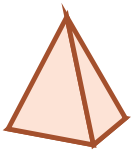
○ **D**

7. Which object has 5 corners?

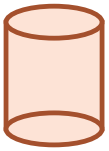
Circle one answer.



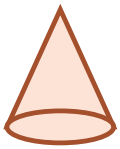
○ **A**



○ **B**



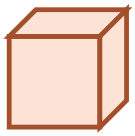
○ **C**



○ **D**

8. How many corners does a cube have?

Answer: ☐ corners



Working:

9. Tick every sentence that is true about this rectangle.

Tick every answer that fits.



☐ **A** Opposite sides are the same length.

☐ **B** All 4 sides are the same length.

☐ **C** All 4 corners are the same size.

☐ **D** It has a curved side.

☐ **E** All its sides are straight.

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10. I am a solid object. I have 6 flat faces and 8 corners. My faces are not all the same size. What am I?

Circle one answer.

○ **A** a rectangular prism

○ **B** a cylinder

○ **C** a pyramid

○ **D** a cube

Answer key

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1. A; C; E

The 1st, 3rd and 5th shapes have 3 straight sides, so they are triangles. The diamond and the trapezium have 4 sides, and the pentagon has 5.

2. A; C

The sphere and the cylinder have curved surfaces, so they roll. The cube and the pyramid have only flat faces.

3. A — a cylinder

A cylinder rolls on its curved side and stacks on its flat ends. A sphere rolls but has no flat face to stack on. A cube stacks but can't roll.

4. A; C; D

Cubes, cylinders and boxes all have flat faces that sit neatly on each other. Spheres have no flat face, so they roll off.

5. A; C; E

The diamond, trapezium and kite each have 4 corners. The half circle has only 2 corners, the triangle has 3 and the circle has none.

6. A

The box has 6 flat faces. The pyramid has 5, the cone has 1 and the sphere has none.

7. B

A pyramid has 4 corners round its square bottom and 1 at the top point: 5 corners. A cube has 8, a cylinder has none, and a cone has just 1 point.

8. 8 corners

4 corners on the top and 4 on the bottom: 8. One of them is hidden at the back of the picture.

9. A — Opposite sides are the same length.; C — All 4 corners are the same size.; E — All its sides are straight.

Its opposite sides match, all 4 corners are square corners, and every side is straight. Only 2 sides are long.

10. A — a rectangular prism

A rectangular prism, like a cereal box, has 6 flat faces and 8 corners. A cube does too, but all a cube's faces are the same size square.