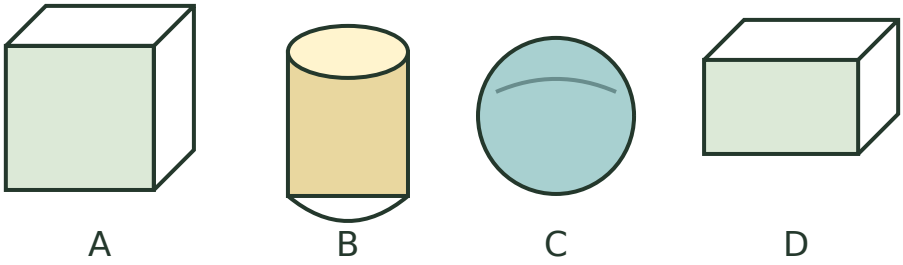
Comparing/classifying objects

6 practice questions

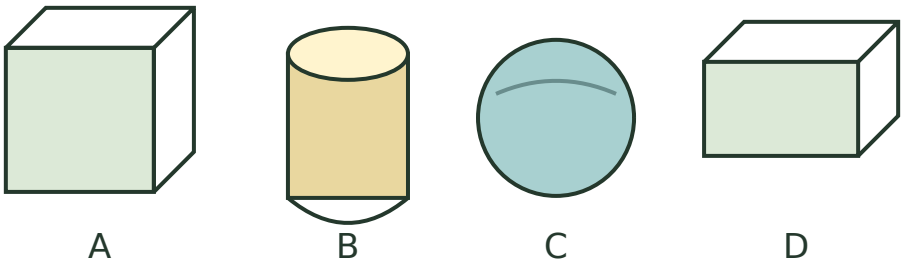
1. List the labelled objects with a curved surface.



The cylinder and sphere have curved surfaces.

Answer: B and C.

2. Which labelled object has no flat faces?



C is a sphere.

Answer: C.

3. A cube and rectangular box are grouped together. Suggest a shape rule that fits both.

Other correct shared-feature rules, such as both have corners, are acceptable.

Answer: Example: both have only flat faces.

4. A sphere and cylinder are grouped because they can roll. Is that a sensible rule? Explain.

Both have a curved surface.

Sharing a feature does not make the solids identical.

Answer: Yes, if the rule is rolling on a curved surface.

5. Give a feature that separates a sphere from a cylinder.

Both have curved surfaces, so that feature would not separate them.

Answer: The cylinder has flat faces; the sphere has none.

6. Sort cube, cylinder and sphere into “only flat surfaces” and “has a curved surface”.

This rule places each object in one group.

Answer: Only flat surfaces: cube. Has a curved surface: cylinder and sphere.