

Shape and Data Unit 4

Problem solving and reasoning questions

You will need a pile of 3-D shapes.

Mystery shapes.

- I have six square faces
 - If I am one way up, I slide. If you turn me over, I roll.
 - I am used in football!
 - I can only slide. Not all my faces are the same but they are all rectangles.
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True or false

- No shape has only curved faces
 - Two shapes we know have six rectangle faces
 - No shape can both roll and slide
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Name three shapes which you could use, dipping one side in paint, to print a square.

These questions should be provided for children to do once the unit has been completed. They assess the children's mastery of the skills and concepts in this unit.

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Problem solving and reasoning questions

You will need a pile of 3-D shapes.

Mystery shapes.

- I have six square faces **Cube.**
 - If I am one way up, I slide. If you turn me over, I roll.
Cylinder.
 - I am used in football! **Sphere.**
 - I can only slide. Not all my faces are the same but they are all rectangles. **Cuboid.**
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True or false

- No shape has only curved faces **False – a sphere does.**
 - Two shapes we know have six rectangle faces **True – a cube and cuboid.**
 - No shape can both roll and slide **False – a cylinder can.**
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Name three shapes which you could use, dipping one side in paint to print a square. **Cube, cuboid, square based pyramid.**

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