Reasoning and Problem Solving Step 4: Recognise 2D and 3D Shapes

National Curriculum Objectives:

Mathematics Year 2: (2G1a) Compare and sort common 2-D shapes and everyday objects

Mathematics Year 2: (2G1b) Compare and sort common 3-D shapes and everyday objects

Differentiation:

Questions 1, 4 and 7 (Reasoning)

Developing Explain if a statement about 2 shapes is correct. Includes shapes in different orientations.

Expected Explain if a statement about 3 shapes is correct. Includes familiar shapes in different styles.

Greater Depth Explain if a statement about 4 shapes is correct. Includes shapes of similar appearance in different styles.

Questions 2, 5 and 8 (Reasoning)

Developing Explain the mistake made when labelling 2 shapes.

Expected Explain the mistake made when labelling 3 shapes.

Greater Depth Explain the mistake made when labelling 5 shapes. Includes one or more shapes in each category.

Questions 3, 6 and 9 (Problem Solving)

Developing Sort 3 shapes into the correct places in a Venn diagram.

Expected Sort 5 shapes into the correct places in a Venn diagram.

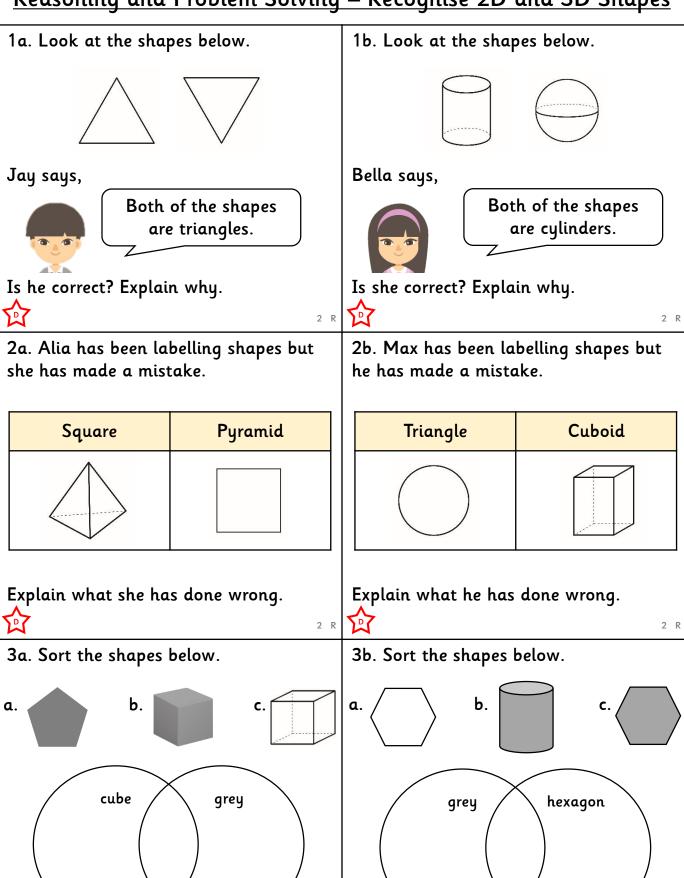
Greater Depth Sort 5 shapes into the correct places in a Venn diagram. Includes one shape which does not fit any category.

More Year 2 and Year 3 Shape, Position and Direction resources.

Did you like this resource? Don't forget to <u>review</u> it on our website.

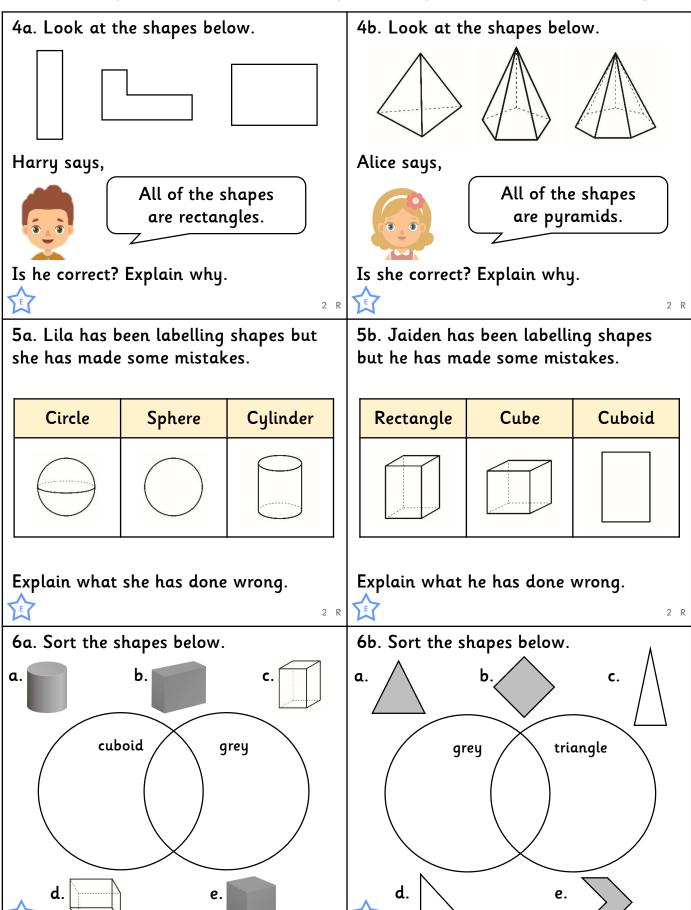


Reasoning and Problem Solving — Recognise 2D and 3D Shapes



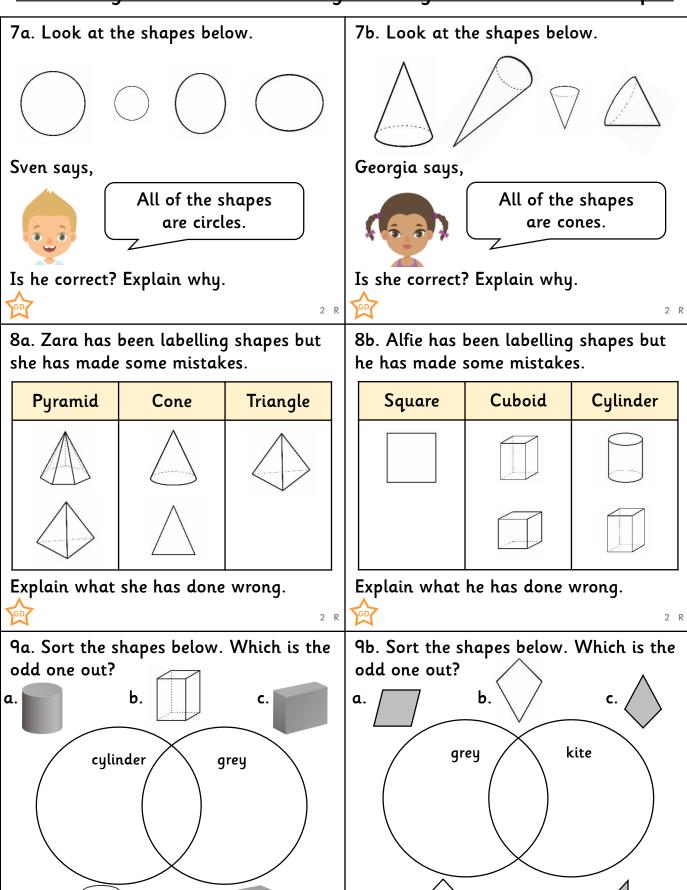


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d.

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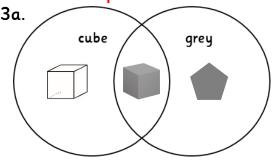
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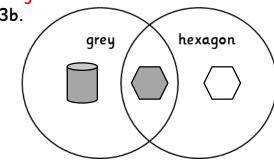
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Developing

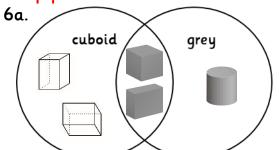
- 1a. Jay is correct. Both of the shapes are triangles in different positions.
- 1b. Bella is incorrect. The first shape is a cylinder but the second shape is a sphere.
- 2a. Alia has put the square and the pyramid in the wrong places. They need to swa.
- 2b. Max has put a circle with the label 'triangle'.

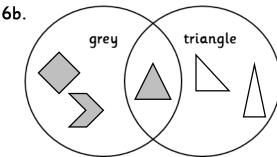




Expected

- 4a. Harry is incorrect. The shape in the middle is an irregular hexagon.
- 4b. Alice is correct. All of the shapes are pyramids with different bases.
- 5a. Lila has put the circle and the sphere in the wrong places. They need to swap
- 5b. Jaiden has put the cuboid and the rectangle in the wrong places. They need to swap places.





<u>Greater Depth</u>

- 7a. Sven is incorrect. The first two shapes are circles but the last two shapes are ovals.
- 7b. Georgia is correct. All of the shapes are cones in different sizes and positions.
- 8a. Zara has put a triangle with the label 'cone' and a pyramid with the label 'triangle'.
- 8b. Alfie has put a cube with the label 'cylinder' and a cuboid with the label 'cylinder'.

9a. cylinder grey

