

★ Count Faces on 3-D Shapes

Children use their knowledge of 2-D shapes to identify the shapes of faces on 3-D shapes. To avoid miscounting the faces, they need to mark each face using blue tac or other ways. They identify and visualise 3-D shapes from 2-D representations. On this sheet, they use the 3-D shape mat to identify what each shape is.

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The worksheet includes a 3-D shape mat with illustrations of a Cuboid, Cone, Square-based pyramid, and Triangular Prism. To the right is a table titled 'Complete the table' with the following structure:

Shape	Name of shape	Number of flat faces	Draw the faces

★★ Count Faces on 3-D Shapes

Children use their knowledge of 2-D shapes to identify the shapes of faces on 3-D shapes. To avoid miscounting the faces, they need to mark each face using blue tac or other ways. They identify and visualise 3-D shapes from 2-D representations. On this sheet, they can use the 3-D mat if needed, but can be encouraged to find the correct 3D shape from their table and the name.

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The worksheet features a table titled 'Complete the table' with the following structure:

Shape	Name of shape	Number of flat faces	Draw the faces

★★★ Count Faces on 3-D Shapes

On this sheet, children have more challenging 3-D shapes. They can research what each shape might be, or use the 3-D shape provided to find the shapes.

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The worksheet includes a 3-D shape mat with illustrations of a Cuboid, Hexagonal Pyramid, Cone, Square-based pyramid, Hexagonal Prism, and Triangular Prism. To the right is a table titled 'Complete the table' with the following structure:

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Reasoning & Problem Solving

Sort 2-D Shapes

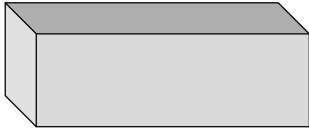
Children continue demonstrating their understanding of 3-D shapes by answering reasoning questions.

The worksheet contains two reasoning questions:

Question 1: Malachi has two 3-D shapes in his pocket. There are 12 square faces altogether. What 2 3-D shapes could he have? Explain how you know.

Question 2: I am hiding a 3-D shape. It has a square face and triangle faces. What 3-D shape is it? How do you know?

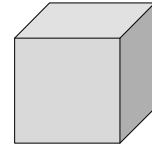
3-D Shapes



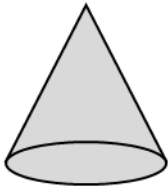
Cuboid



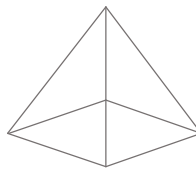
Cylinder



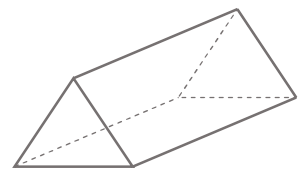
Cube



Cone

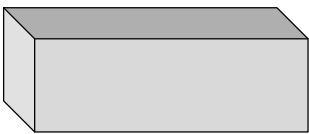


Square-based pyramid

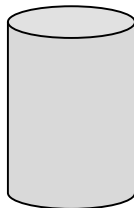


Triangular Prism

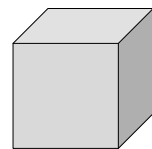
3-D Shapes



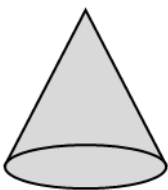
Cuboid



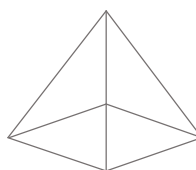
Cylinder



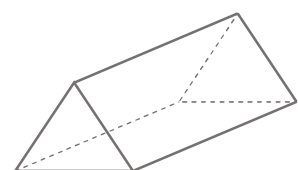
Cube



Cone






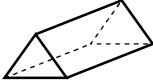


Square-based pyramid




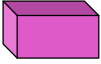



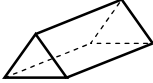
Triangular Prism

Complete the table.

Shape	Name of shape	Number of flat faces	Draw the faces
			
			
			
			
			
			






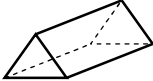
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Complete the table.


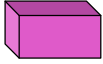



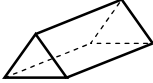
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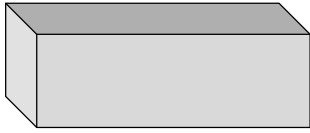
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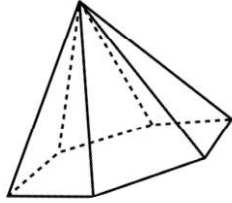
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3-D Shapes



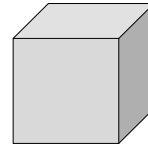
Cuboid



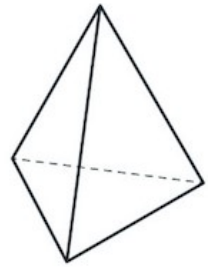
Hexagonal Pyramid



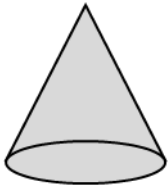
Cylinder



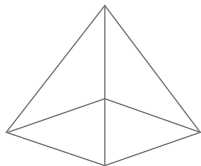
Cube



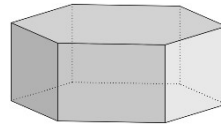
Tetrahedron



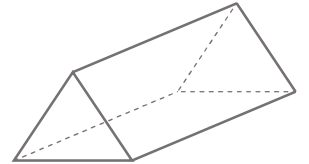
Cone



Square-based pyramid

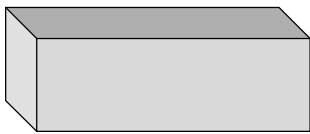


Hexagonal Prism

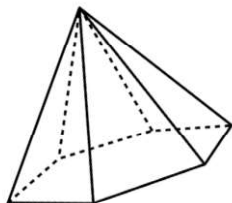


Triangular Prism

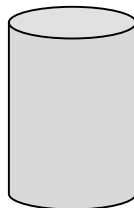
3-D Shapes



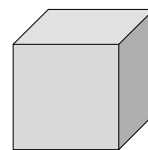
Cuboid



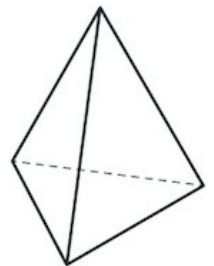
Hexagonal Pyramid



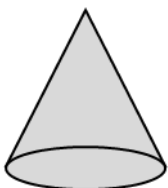
Cylinder



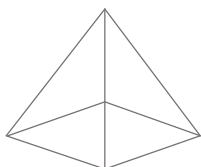
Cube



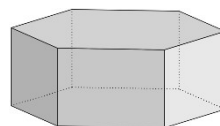
Tetrahedron



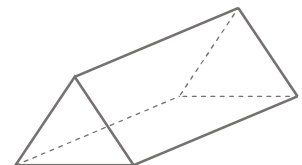
Cone



Square-based pyramid








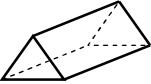
Hexagonal Prism



Triangular Prism








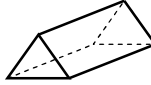
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Malachi has two 3-D shapes in his pocket

There are 12 square faces altogether.



What two 3-D shapes could he have?
Explain how you know.

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What shape is Zach hiding?
How do you know?

I am hiding a 3-D shape.

It has a square face and
triangle faces.
What 3-D shape is it?



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There are 12 square faces altogether.



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