





## ★ 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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Count Faces on 3-D Shapes ★

Complete the table.

Shape	Name of shape	Number of faces	Draw the faces
			
			
			
			

Cuboid

Cone

Square-based pyramid

Triangular Prism





## ★★ 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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Count Faces on 3-D Shapes ★★

Complete the table.

Shape	Name of shape	Number of 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 mat provided to find the shapes.

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Count Faces on 3-D Shapes ★★★

Complete the table.

Shape	Name of shape	Number of faces	Draw the faces
			
			
			
			
			
			

Cuboid

Hexagonal Pyramid

Cone

Square-based pyramid

Hexagonal Prism

Triangular Prism

## Reasoning & Problem Solving

### Sort 2-D Shapes

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

Count Faces on 3-D Shapes

Reasoning & Problem Solving

Malachi has two 3-D shapes in his pocket.

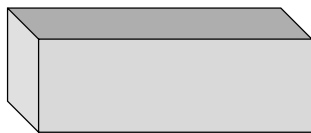
There are 12 square faces altogether.

What 2 3-D shapes could he have? Explain how you know.

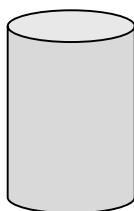
What shape is Zach hiding? How do you know?

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

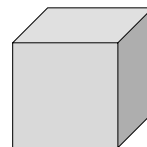
## 3-D Shapes



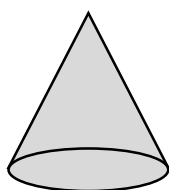
Cuboid



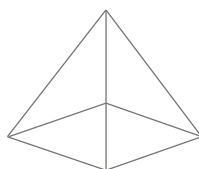
Cylinder



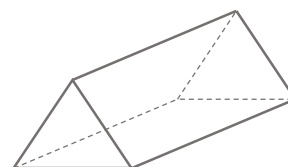
Cube



Cone

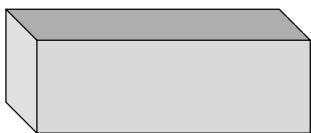


Square-based pyramid

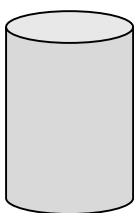


Triangular Prism

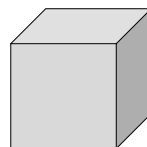
## 3-D Shapes



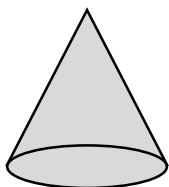
Cuboid



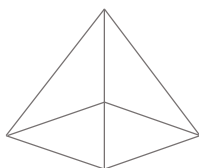
Cylinder



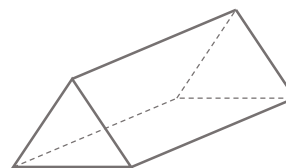
Cube



Cone






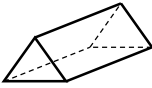


Square-based pyramid








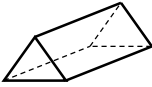
Triangular Prism

Complete the table.

Shape	Name of shape	Number of flat faces	Draw the faces
			
			
			
			
			
			

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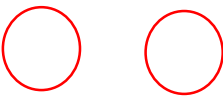



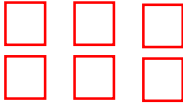



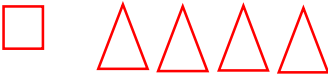
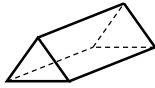
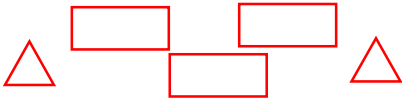
Complete the table.

Shape	Name of shape	Number of flat faces	Draw the faces
			
			
			
			
			
			

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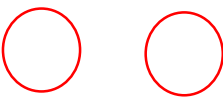
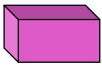


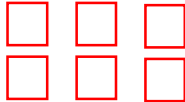




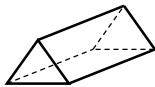
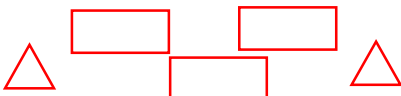
Complete the table.

Shape	Name of shape	Number of flat faces	Draw the faces
	cylinder	2	
	cuboid	6	
	cube	6	
	cone	1	
	square-based pyramid	5	
	triangular prism	5	

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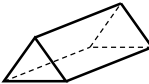


Complete the table.


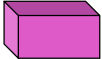



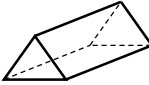
Shape	Name of shape	Number of flat faces	Draw the faces
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	cuboid	6	
	cube	6	
	cone	1	
	square-based pyramid	5	
	triangular prism	5	

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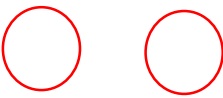



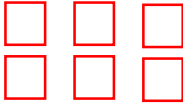




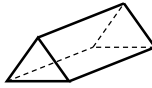
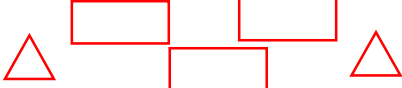
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Shape	Name of shape	Number of flat faces	Draw the faces
			
			
			
			
			
			

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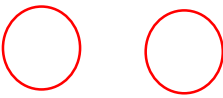
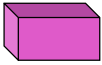


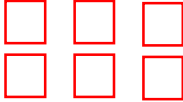




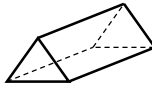
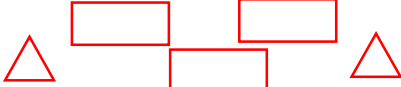
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	cylinder	2	
	cuboid	6	
	cube	6	
	cone	1	
	square-based pyramid	5	
	triangular prism	5	

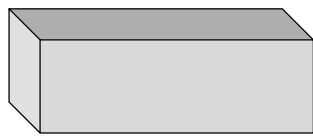
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Complete the table.

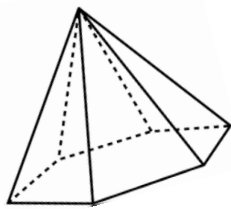
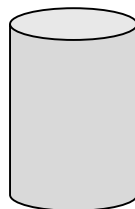
Shape	Name of shape	Number of flat faces	Draw the faces
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	cone	1	
	square-based pyramid	5	
	triangular prism	5	

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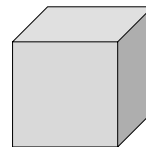
## 3-D Shapes



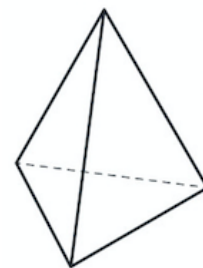
Cuboid

Hexagonal  
Pyramid

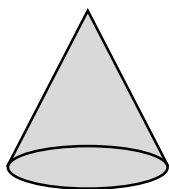
Cylinder



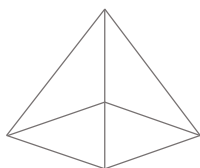
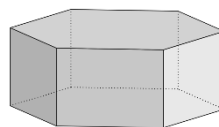
Cube



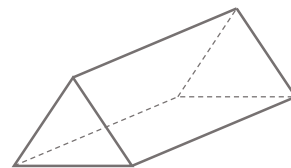
Tetrahedron



Cone

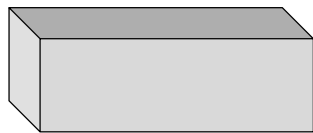
Square-based  
pyramid

Hexagonal Prism

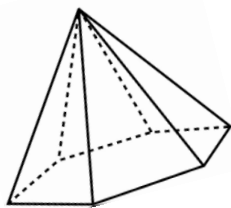
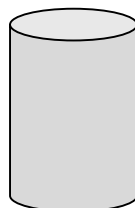


Triangular Prism

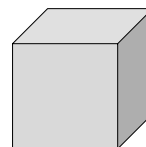
## 3-D Shapes



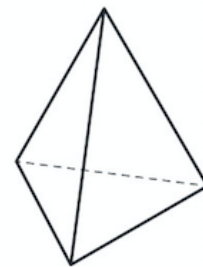
Cuboid

Hexagonal  
Pyramid

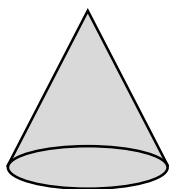
Cylinder



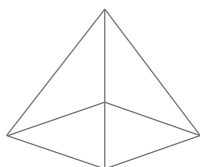
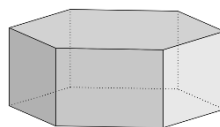
Cube



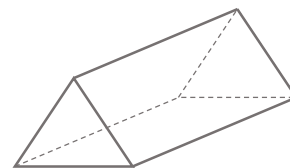
Tetrahedron



Cone

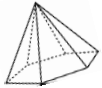
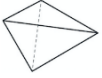



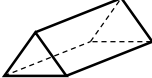
Square-based  
pyramid

Hexagonal Prism

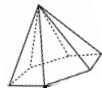
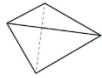



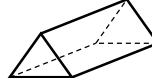


Triangular Prism

Complete the table.

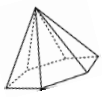
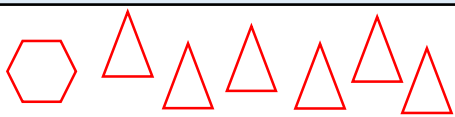
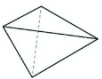
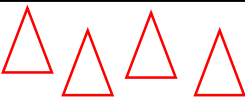
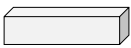


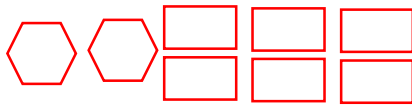


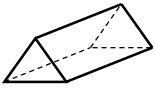
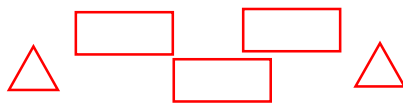
Shape	Name of shape	Number of flat faces	Draw the faces
			
			
			
			
			
			

Complete the table.

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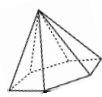
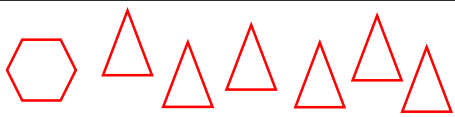
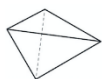
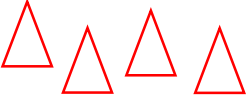

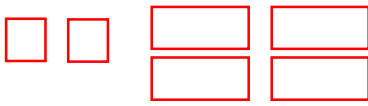

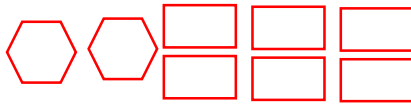

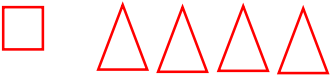
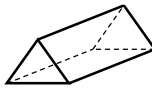
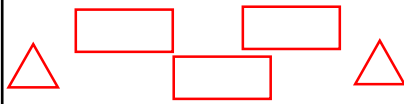


Complete the table.

Shape	Name of shape	Number of flat faces	Draw the faces
	hexagonal pyramid	7	
	tetrahedron	4	
	cuboid	6	
	hexagonal prism	8	
	square based pyramid	5	
	triangular prism	5	

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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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Two cubes because one cube has 6 square faces. Two cubes will have 12 square faces.

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