

Mathematics

Identifying 2-D shapes on the surfaces of 3-D shapes.

Miss Mitchell



OAK
NATIONAL
ACADEMY

Lesson agenda

Properties of shapes



Talk task



Independent task

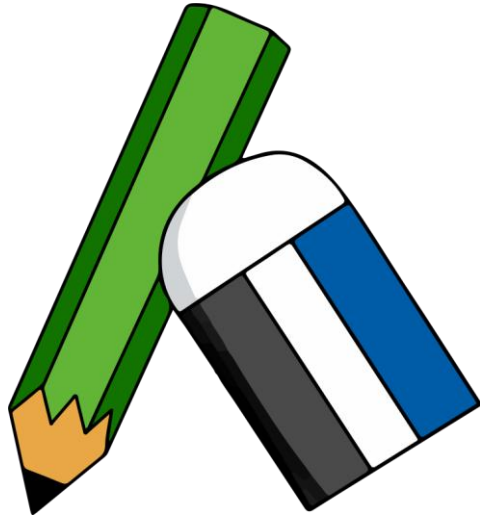


Quiz



You will need...

Pencil

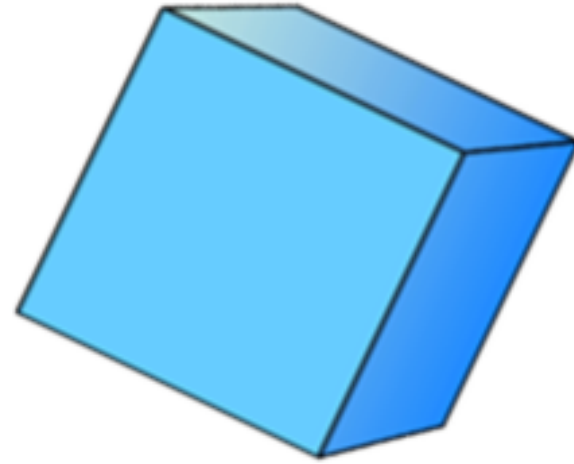
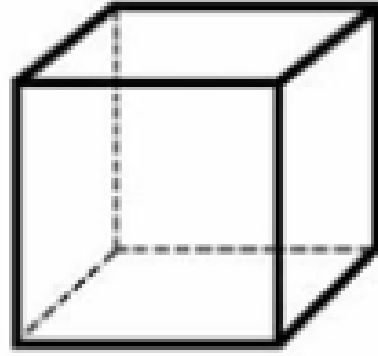


Paper



A cube has:

- 6 faces
- 12 edges
- 8 vertices

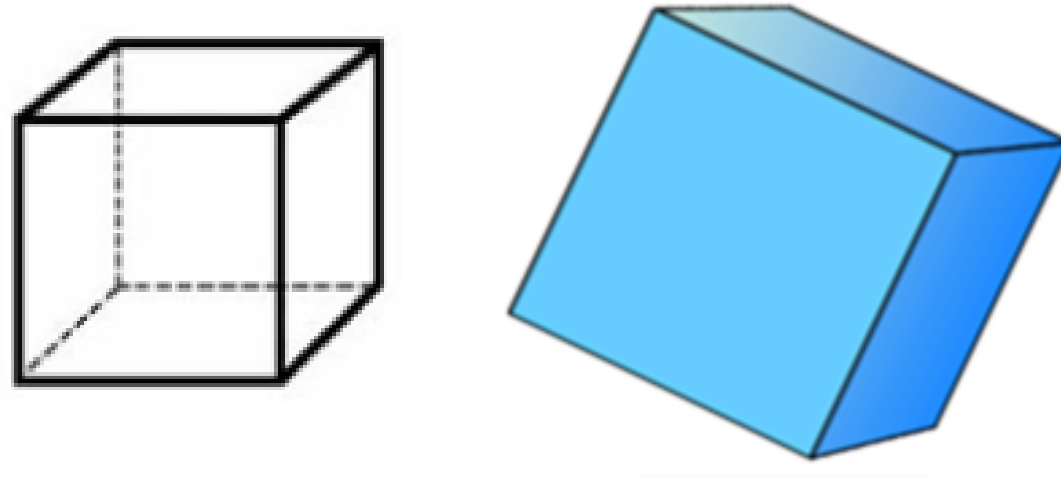


Now, can you describe the cube without using the terms 'edges', 'vertices' or 'faces'?



A cube has:

- 6 faces
- 12 edges
- 8 vertices



Now, can you describe the cube without using the terms 'edges', 'vertices' or 'faces'?

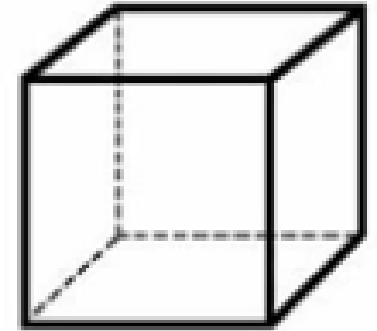
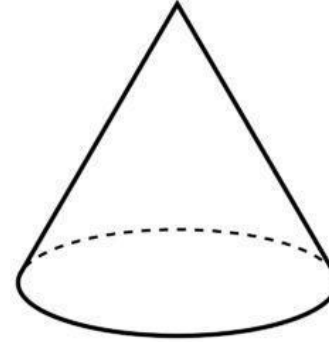
The cube has 6 squares.



Talk task

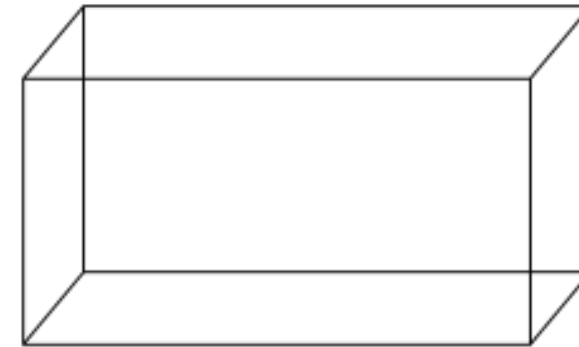
This shape has 6 square faces.

The base of this shape is a circle.



The base and top of this shape are circles.

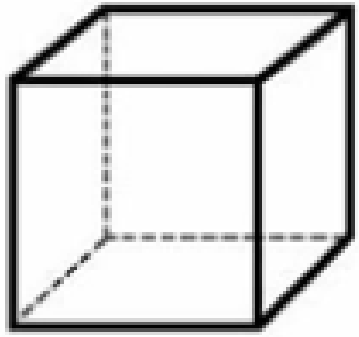
This shape has 6 rectangular faces.



Say it out loud:

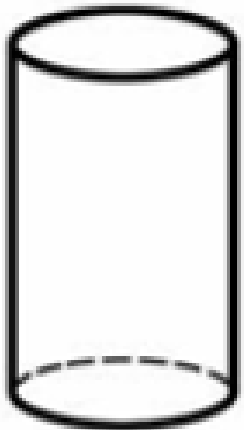
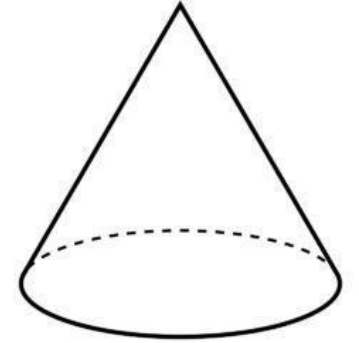
This card says _____ so it matches the
_____.





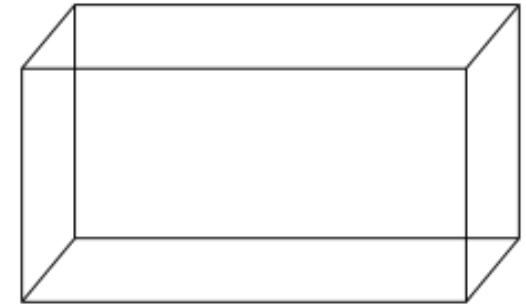
This shape has 6
square faces.

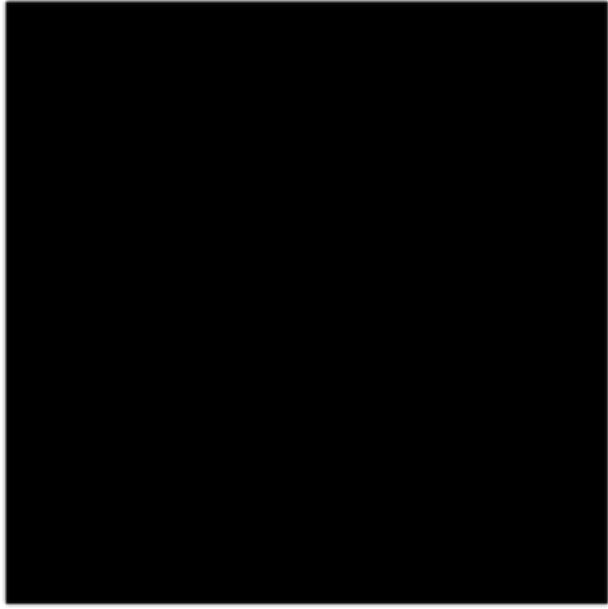
The base of this
shape is a circle.



The base and top
of this shape are
circles.

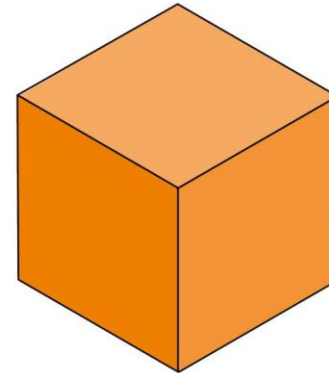
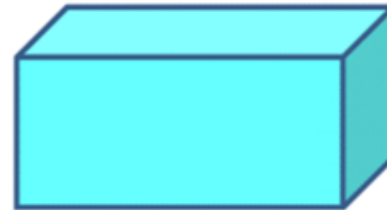
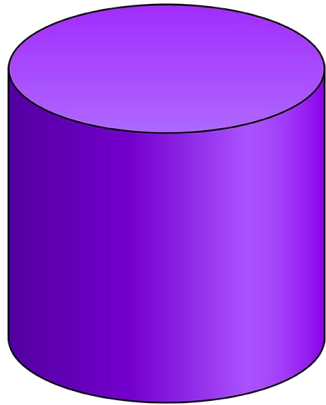
This shape has 6
rectangular faces.





This is the shadow of a 3-D shape.

What shape or shapes might it belong to? How do you know? Choose from the options below:



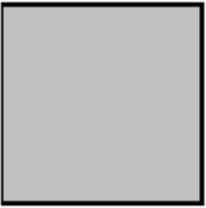
Independent task

What 3-D shape might these shadows belong to? Explain why.

Could any of the shadows belong to more than one shape? Which ones?

	
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Pause to complete your task



Carry on once you're finished



Answers

Questions	Answers
1	A cuboid because a cuboid has 6 rectangular faces
2	A pyramid, square-based pyramid or a triangular prism because it has triangular faces
3	A cube or a cuboid because a cube has 6 square faces and a cuboid has 2 square (rectangular) faces

