Look Back

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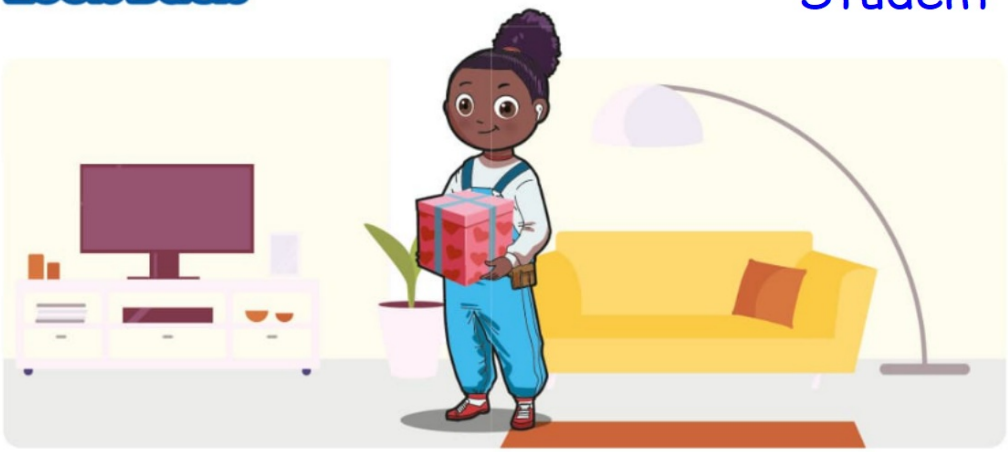
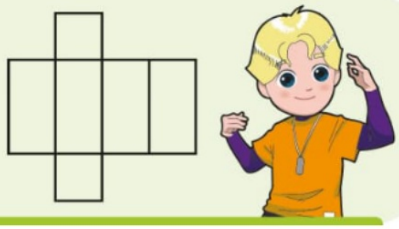


What is the shape of the box? How many faces does it have? What is the shape of each face?

A cube has 6 faces, each face is a square.

Thinking Cap

Izzy wants to fold the figure on the right along the lines into a box. Will the folded box have the same shape as the box above? Trace the figure on the right and cut it out.



No, it will be a cuboid.

Let's Learn

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a Mr. Chan folds two flat pieces of cardboard, Figures A and B, along the lines into boxes. Each box has the shape of a cube.

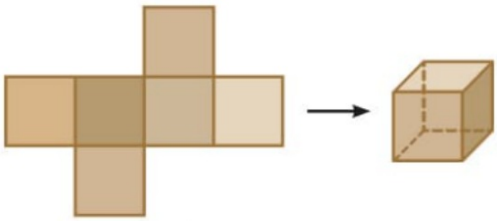

Figure A

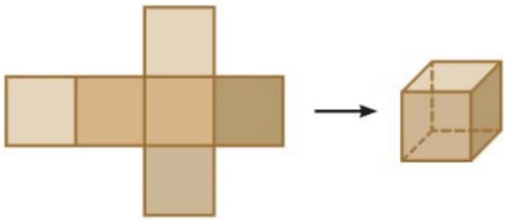

Figure B

Figures A and B are **nets** of a cube. There are 6 square faces on each net.

A net is a 2D shape that can be folded to form a 3D shape.

There are many different nets that make a cube
but all of them have the same number of faces (6 square faces)

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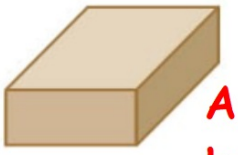
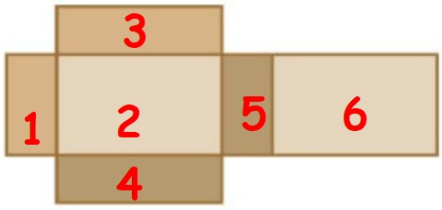
b Talia unfolds the box on the right to get a flat piece of cardboard.

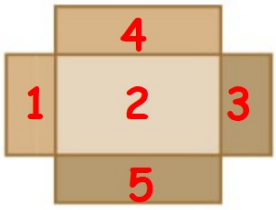
Which net shows the piece of cardboard Talia gets?



A cuboid has 6 faces



Net C



Net D

The box has the shape of a cuboid.
It has six flat faces.

What if the cuboid has an open face at the top? Will the net be same? Discuss with your partner.

No it will look like Net D

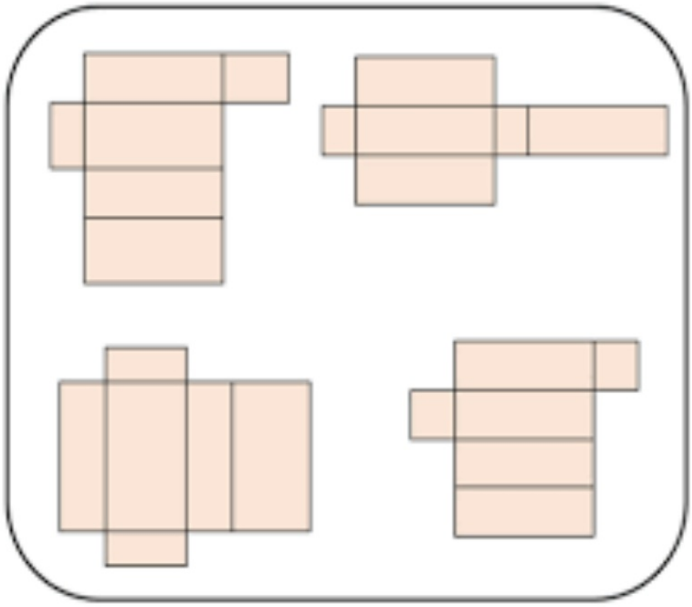
Net C has 6 flat faces.

Net D has 5 flat faces.

Net C shows the piece of cardboard Talia gets.

different nets that make a cuboid

faces are mostly rectangular



number of faces is always 6

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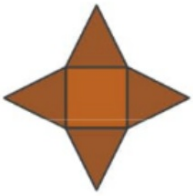
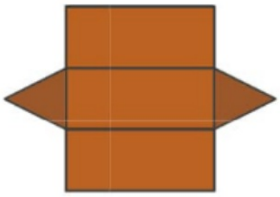
c Daniel unfolds an empty chocolate box.

triangular prism

Which net shows the unfolded box?



Net E



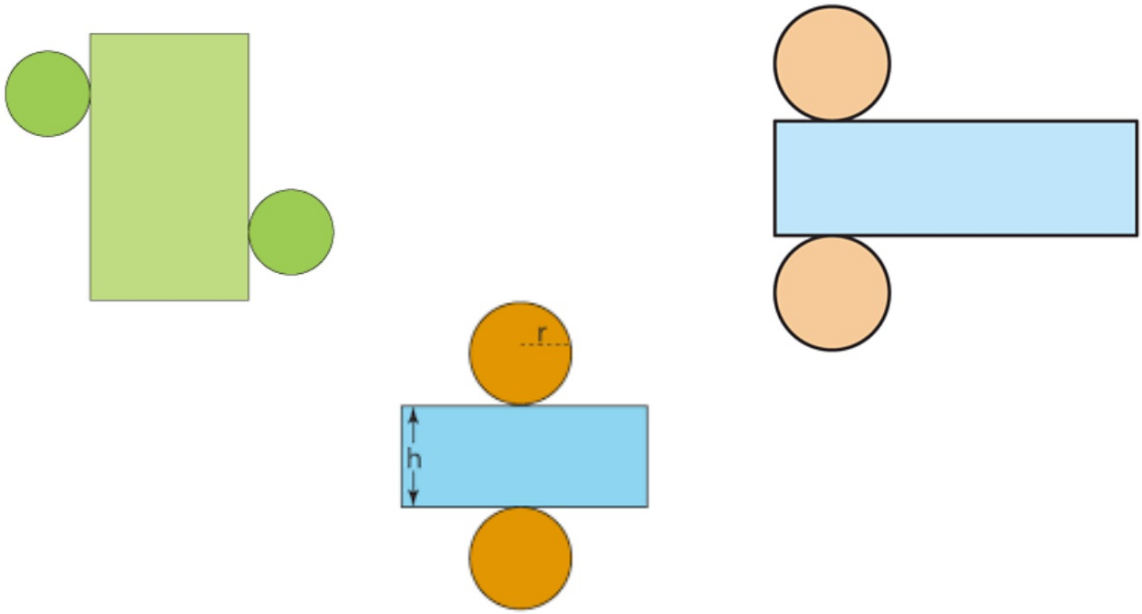
Net F

The chocolate box has 2 triangular faces and 3 rectangular faces.

Net E has 4 triangular faces and 1 square face.

Net F has 2 triangular faces and 3 rectangular faces.

Net F shows the unfolded chocolate box.



All these nets represent which shape? cylinder

hint

Think of a shape that has 2 circles as bases.

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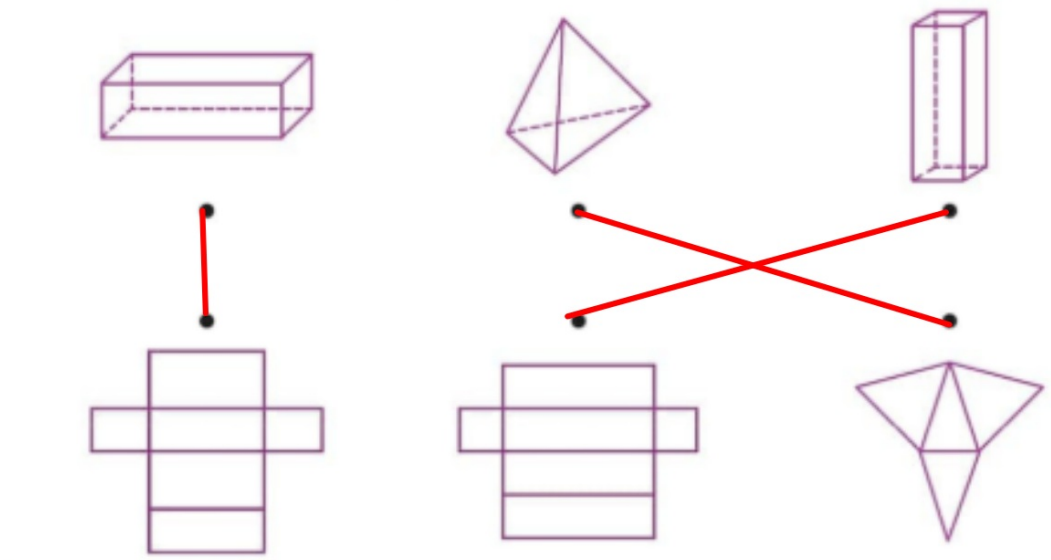
Let's Practise

1 Match each 3D shape to the correct net.



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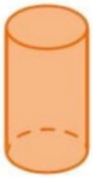
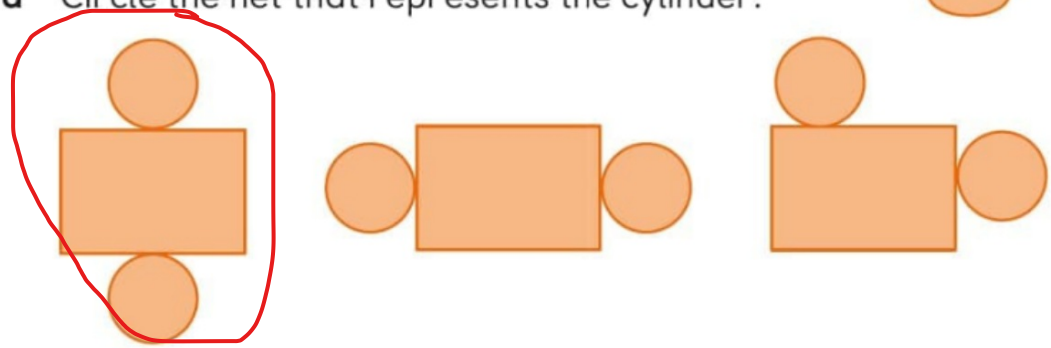
2 Kim rolls a piece of plastic to make a cylinder as shown on the right.



a Circle the net that represents the cylinder.



b What is the shape that forms the curved surface of the cylinder? Make a conjecture. **a circle**

3D Shapes

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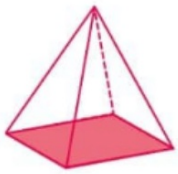
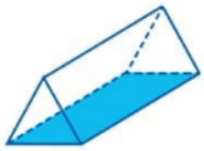
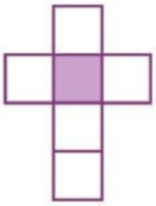
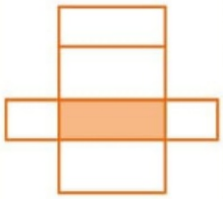
A **net** is a 2D shape that can be folded to form a 3D shape.
The shapes that form the net are the faces of the 3D shape.
Different 3D shapes have different numbers of **flat faces**.

	Type of 3D shapes			
	Closed Cube	Closed Cuboid	Square Pyramid	Triangular Prism
3D Shape				
Net				
Number of flat faces	6	6	5	5