

# Reasoning about 3D shapes



1 Match the net to the correct label.

cube

cylinder

square-based pyramid

cuboid

2 Complete the sentences.

a) The faces of a cube are all square.

b) A square-based pyramid has  triangular faces and  square face.

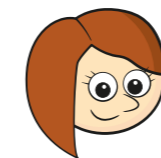
c) The net of a cylinder is made up of 2 circles and a rectangle.

3



Whitney

The net of a cuboid is made up of 4 rectangles and 2 squares.



Rosie

The net of a cuboid is made up of 6 rectangles.

Who do you agree with? Circle your answer.

Whitney

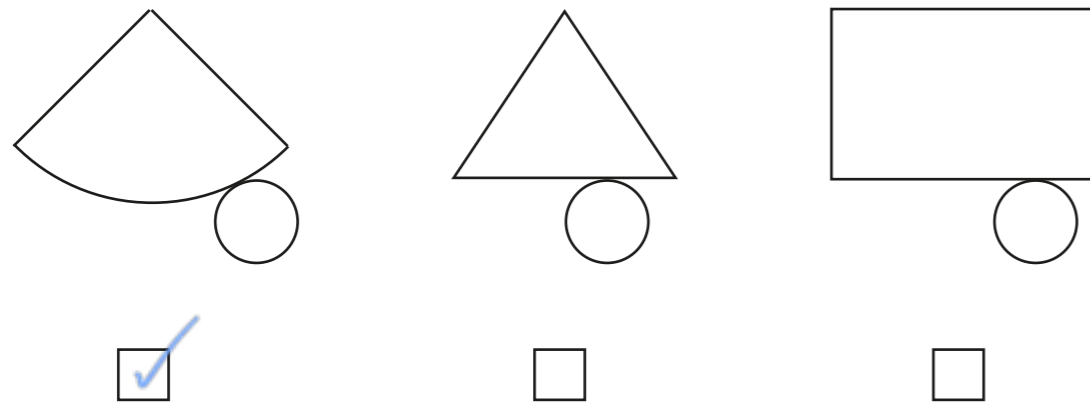
Rosie

both of them

Explain your reasons.

Whitney is sometimes right if a cuboid has square faces. Rosie is always right as a square is a type of rectangle.

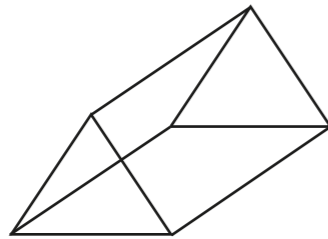
4 Tick the diagram that is the net of a cone.



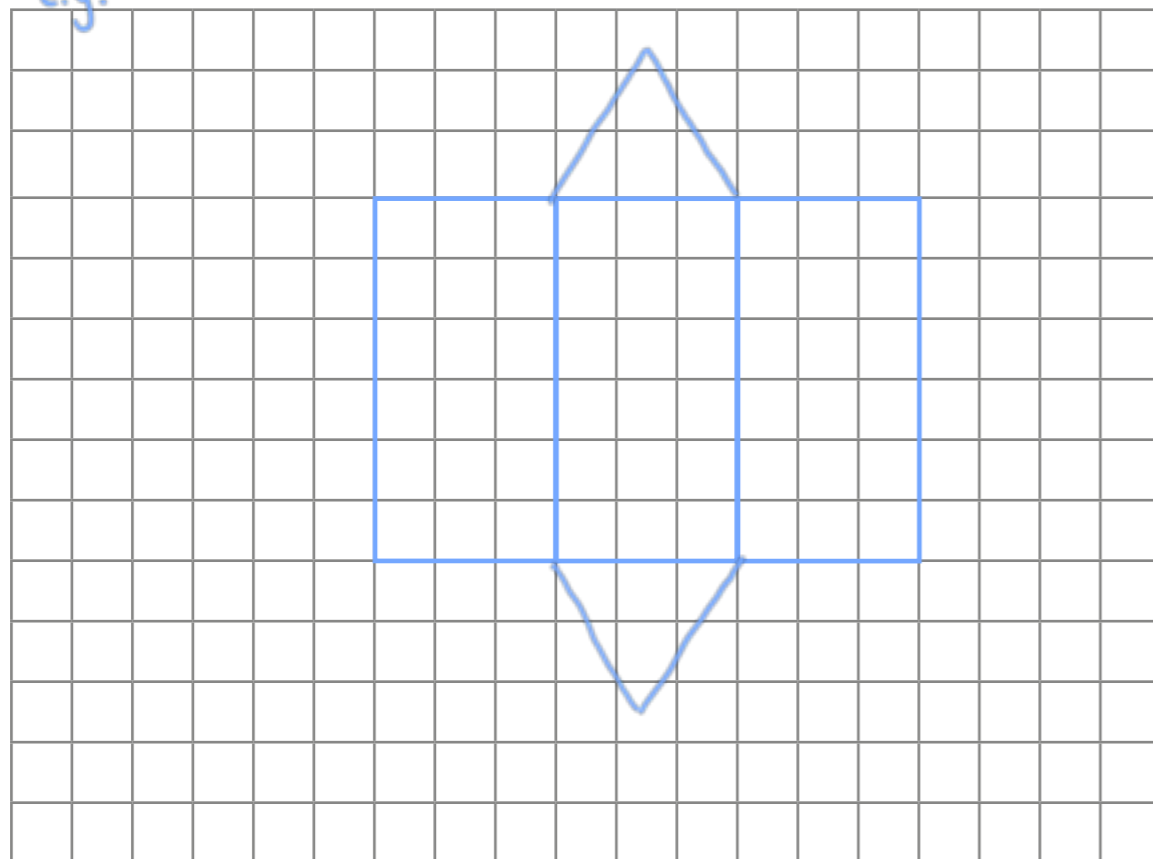
Compare answers with a partner.



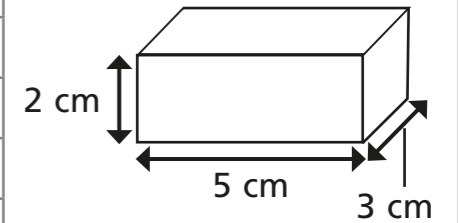
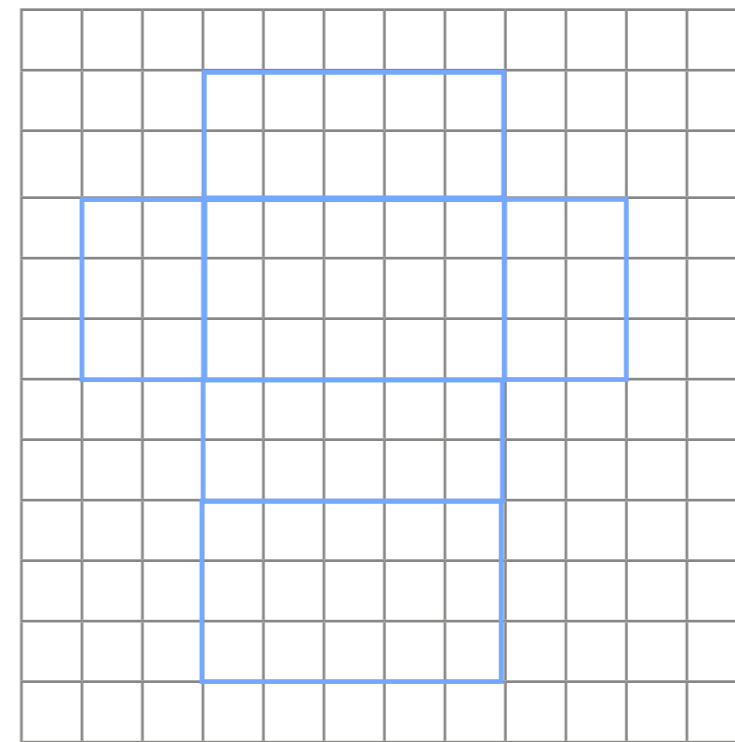
5 Draw the net for a triangular prism on the squared grid.



e.g.



6 Draw an **accurate** net for this cuboid on the squared grid.



7 Draw two different cuboids on the isometric paper.

e.g.

