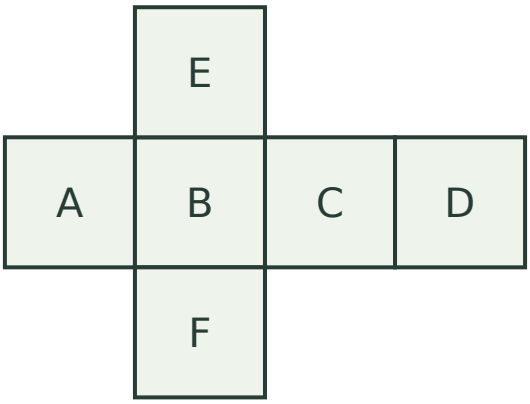
Matching solids/nets

6 questions | 9 marks

Equivalent correct methods earn the corresponding marks.

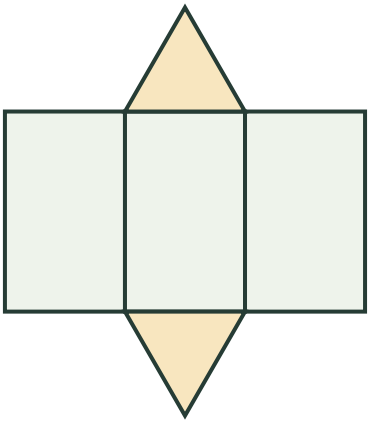
1. Name the solid made by this net. [1 mark]



The net has six equal squares in a valid folding arrangement.

Answer: Cube.

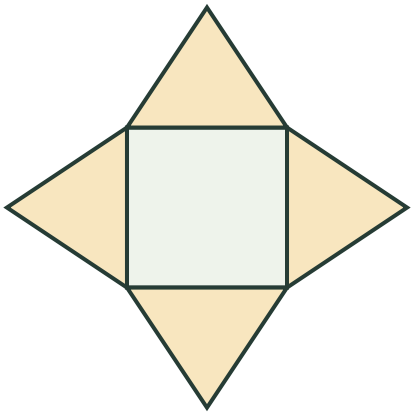
2. Name this solid. [1 mark]



Two matching triangular ends join to three rectangular sides.

Answer: Triangular prism.

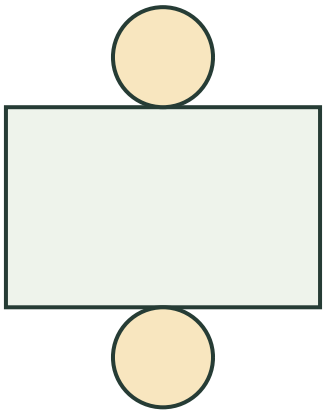
3. How many triangular faces will this net make? [1 mark]



Each of the four triangles becomes one sloping face.

Answer: Four.

4. A net has two equal circles and a rectangle for a curved surface. What solid does it make? [1 mark]



The circles close the ends and the rectangle wraps around.

Answer: Cylinder.

5. A rectangular box has length 6 cm, width 4 cm and height 3 cm. List its three pairs of opposite face sizes. [3 marks]

Match length/width, length/height and width/height.

Answer: Two 6 by 4 cm faces; two 6 by 3 cm faces; two 4 by 3 cm faces.

6. Can a cube net contain five squares and one triangle? Explain. [2 marks]

Every cube face is a square, so all six panels must be equal squares.

Answer: No.