3D shapes and nets topic test

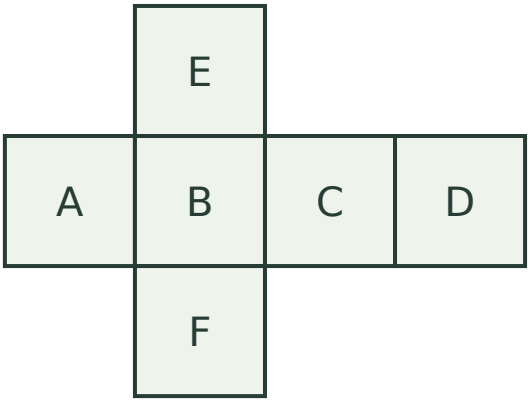
Name: _____ Date: _____

12 questions | 23 marks | 35 minutes

Identify nets, explain folds and plan accurate models.

No calculator needed.

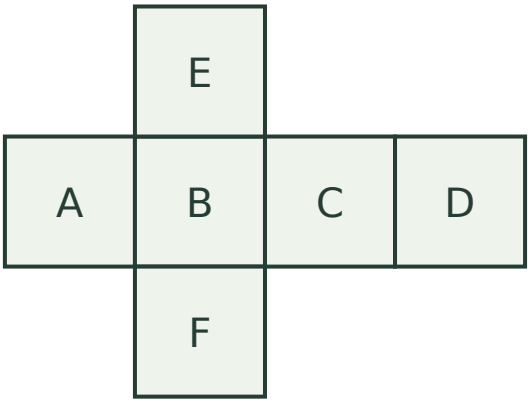
1. Name the solid made by the net. [1 mark]



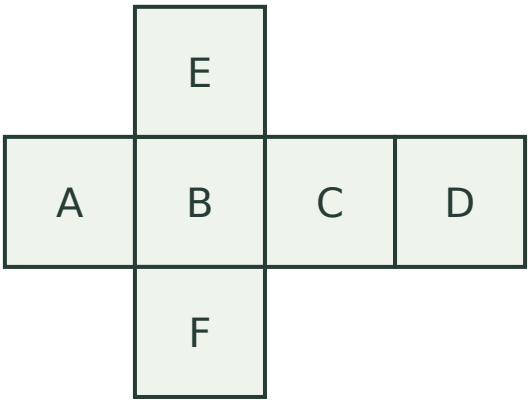
2. How many rectangular faces does a triangular prism have? [1 mark]

3. Name the solid with one square and four triangular faces. [1 mark]

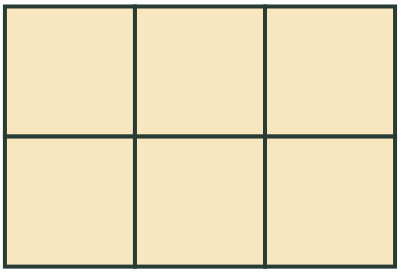
4. Which labelled face is opposite E? [1 mark]



5. Will A and C share an edge on the folded cube? [2 marks]



6. Explain why this arrangement does not make a cube net. [2 marks]



7. How many vertices does a cube have? [1 mark]

8. A solid has five faces. Is that enough information to name it? Explain. [2 marks]

9. A cube has edges of 4 cm. Find the total area of its six faces. [2 marks]

10. Draw a valid net for a cube with 2 cm edges. Show one glue tab without counting it as a face. [3 marks]

11. A rectangular box is 4 cm long, 3 cm wide and 2 cm high. [4 marks]

(a) List the sizes of its six faces. [2 marks]

(b) Find their total area. [2 marks]

12. An equilateral triangular prism has end edges 4 cm and length 7 cm. Describe all the pieces needed for its net. [3 marks]