

Year 5 3D shape challenges
Problem solving and reasoning questions

Always true, sometimes true or false?

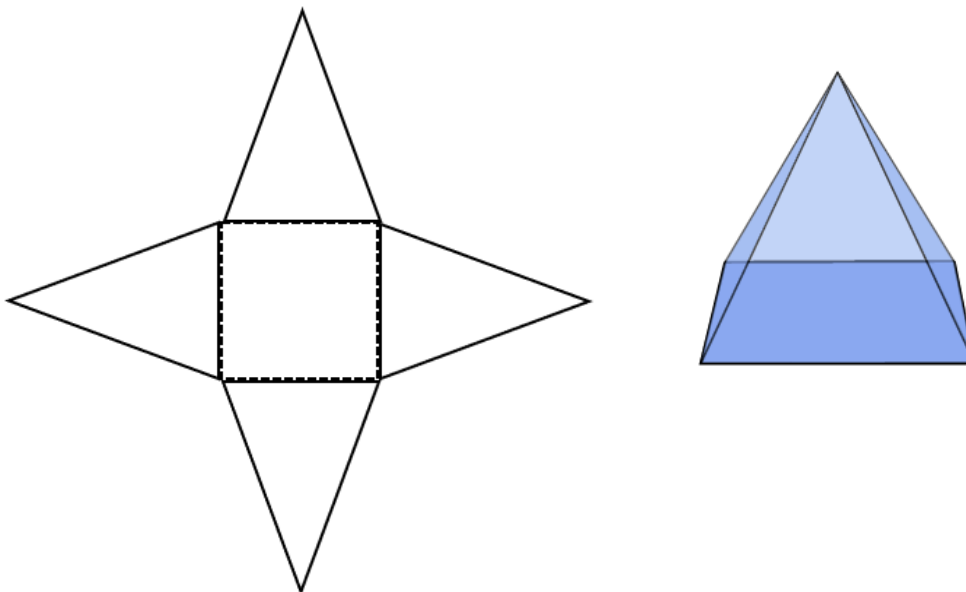
- A cube is a type of cuboid
 - Pyramids have 5 faces
 - Prisms have a cross-section that is always the same, so a cylinder is a prism
 - Cubes and cuboids have the same number of vertices
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How many edges has a...

- (a) Cuboid?
 - (b) Square-based pyramid?
 - (c) Cylinder?
 - (d) Triangular prism?
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In-depth Investigation

This is the net for a square-based pyramid:



Can you visualise and draw any other different nets that fold to give the same pyramid?