

Luna's Space Adventure

Grade 5 · Nets of solids · OK.5.GM.1.3

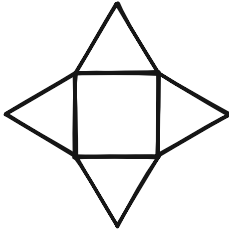
Name _____

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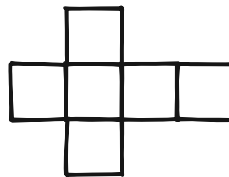


Astronaut Luna is exploring a far-off corner of space. Solve each problem to help Luna's mission go smoothly!

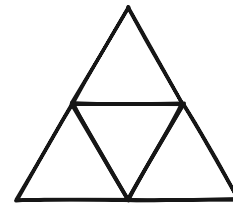
What will it fold into? Cut out the net in your mind and fold along the lines. Name the solid.



Solid _____

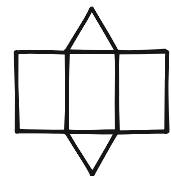
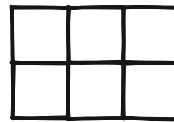
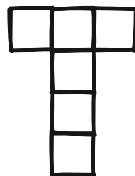


Solid _____



Solid _____

Nets of a cube A cube has 6 square faces. Circle each net that folds into a cube.



Faces in the net A net has one shape for each face of the solid.

How many faces does the net of a triangular prism have, and what shapes are they?

How many faces does the net of a triangular pyramid have, and what shapes are they?

How many faces does the net of a rectangular prism have, and what shapes are they?



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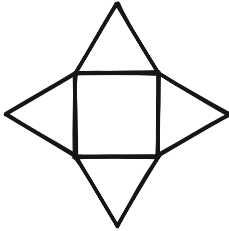
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ANSWER KEY

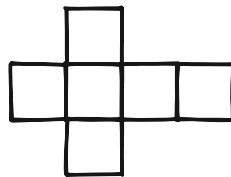


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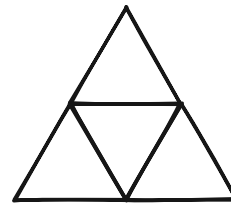
What will it fold into? Cut out the net in your mind and fold along the lines. Name the solid.



Solid square pyramid

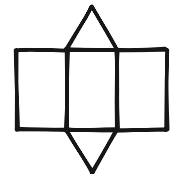
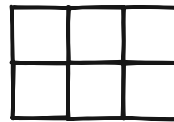
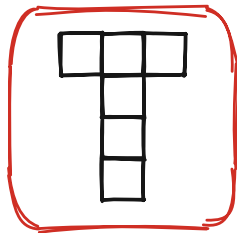


Solid cube



Solid triangular pyramid

Nets of a cube A cube has 6 square faces. Circle each net that folds into a cube.



Faces in the net A net has one shape for each face of the solid.

How many faces does the net of a triangular prism have, and what shapes are they?

5: 2 triangles and 3 rectangles

How many faces does the net of a triangular pyramid have, and what shapes are they?

4: triangles

How many faces does the net of a rectangular prism have, and what shapes are they?

6: rectangles



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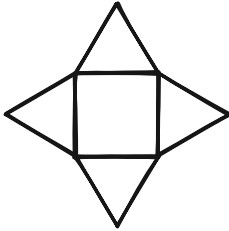
GUIDE

1 What this sheet practises

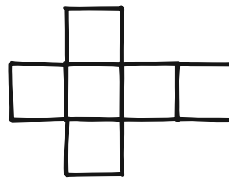
Naming the solid a net folds into, telling which nets fold into a cube, and matching a net's faces to the solid's.

2 A problem from the sheet, worked out

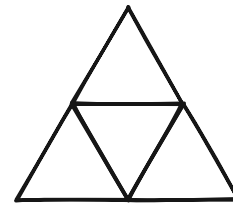
What will it fold into? Cut out the net in your mind and fold along the lines. Name the solid.



Solid square pyramid



Solid cube



Solid triangular pyramid

How: Count the faces and look at their shapes: 6 squares make a cube, triangles meeting a square make a square pyramid. Imagine folding each face up from the middle one.

3 Words to know

net a flat pattern that folds into a solid

face a flat side of a solid

prism a solid with two matching ends joined by rectangles

pyramid a solid with a base and triangles that meet at a point

4 Watch for

- Thinking any 6 squares make a cube: a row of 6 or a 2×3 block won't fold.
- Mixing up a triangular prism (2 triangles) and a triangular pyramid (4 triangles).
- Counting a shared edge as two faces.

5 Where it fits

BEFORE

5.G.B.3

See that features of a shape family belong to every shape in it.

THIS SHEET

5.GM.1.3

Recognize and draw nets of cubes, rectangular prisms and pyramids.

6 Helping at home

Cut open an empty cereal box along its edges and lay it flat: that's a net of a rectangular prism.

