

Homework/Extension

Step 11: Nets of 3D Shapes

National Curriculum Objectives:

Mathematics Year 6: (6G3b) [Recognise and build simple 3-D shapes, including making nets](#)

Mathematics Year 6: (6G2b) [Describe simple 3-D shapes](#)

Mathematics Year 6: (6G2a) [Compare and classify geometric shapes based on their properties and sizes](#)

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Match the nets to their 3D shapes. Includes simple cuboids and pyramids.

Expected Match the nets to their 3D shapes. Includes prisms, pyramids, truncated pyramids, cones and cylinders.

Greater Depth Match the nets to their 3D shapes. Includes complex, compound shapes.

Questions 2, 5 and 8 (Varied Fluency)

Developing Circle the name of the 3D shape which matches the net. Includes simple cuboids and pyramids.

Expected Circle the name of the 3D shape which matches the net. Includes prisms, pyramids, truncated pyramids, cones and cylinders.

Greater Depth Circle the name of the 3D shape which matches the net. Includes complex, compound shapes.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Match the net descriptions to the correct 3D shapes with visual representation. Includes simple cuboids and pyramids.

Expected Match the net descriptions to the correct 3D shapes without visual representation. Includes prisms, pyramids, truncated pyramids, cones and cylinders.

Greater Depth Match the net descriptions to the correct 3D shapes without visual representation. Includes complex, compound shapes.

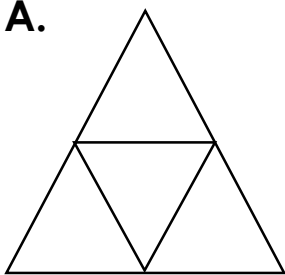
More [Year 6 Properties of Shapes](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Nets of 3D Shapes

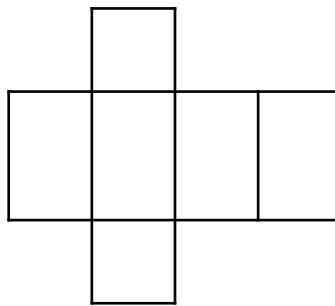
1. Match the nets to their 3D shapes.

A.



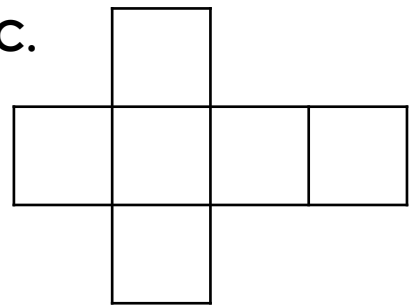
Cube

B.



Pyramid

C.



Cuboid



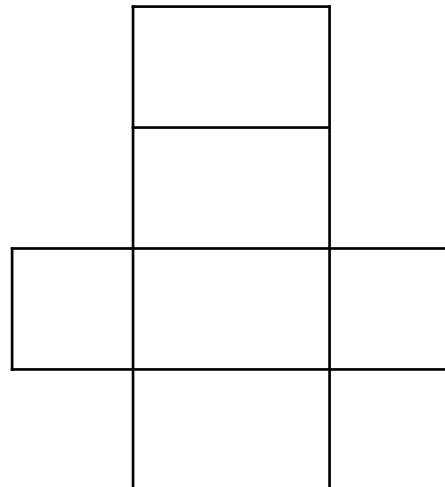
VF
HW/Ext

2. Circle the shape that the net below will create.

Pyramid

Cuboid

Cube



VF
HW/Ext

3. Match each person to their 3D shape.



Jess

The net of my shape contains only squares.



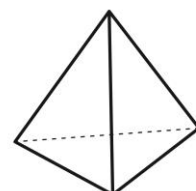
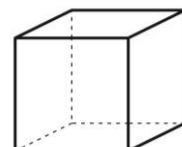
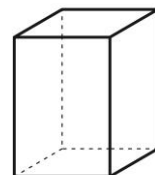
Seth

There are triangles in the net of my shape.



Mia

My shape has a net made of rectangles.

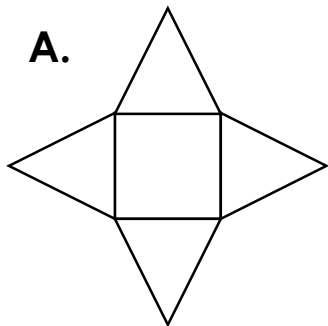


RPS
HW/Ext

Nets of 3D Shapes

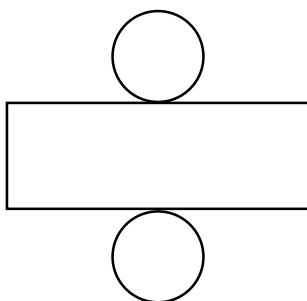
4. Match the nets to their 3D shapes.

A.



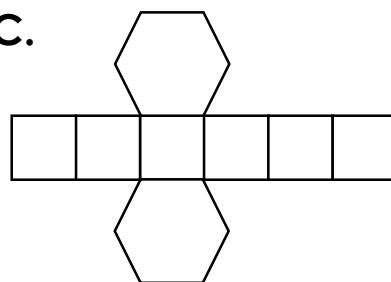
Cylinder

B.



Hexagonal
Prism

C.



Pyramid



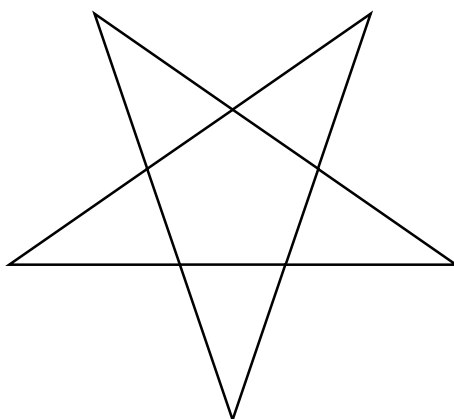
VF
HW/Ext

5. Circle the shape that the net below will create.

Hexagonal
pyramid

Cylinder

Pentagonal
prism



Cone

Pentagonal
pyramid

Hexagonal
prism



VF
HW/Ext

6. Match each person to their 3D shape.



The net of my shape contains
a circle.

Truncated square-
based pyramid



There are 8 rectangles in the
net of my shape.

Cone



There are 6 shapes
in the net of my shape.

Octagonal prism

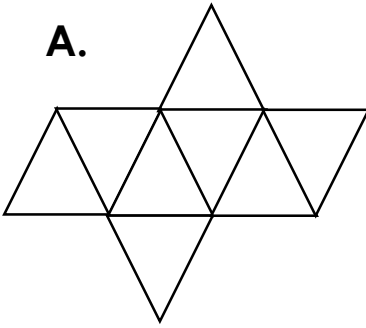


RPS
HW/Ext

Nets of 3D Shapes

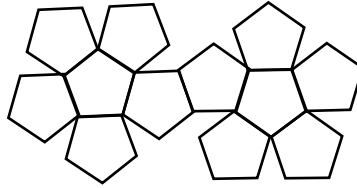
7. Match the nets to their 3D shapes.

A.



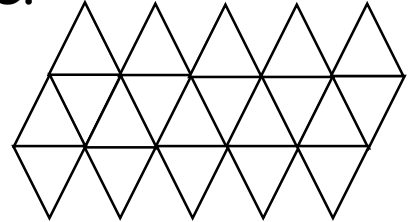
Dodecahedron

B.



Icosahedron

C.



Octahedron



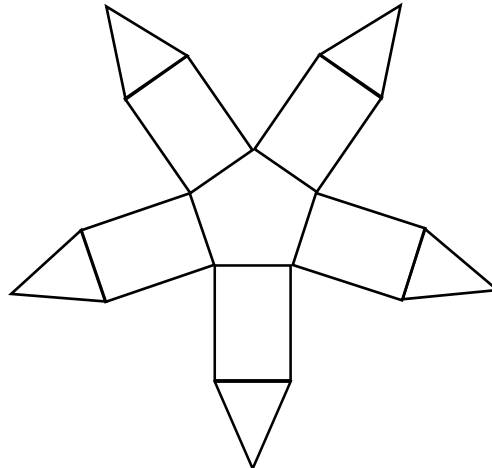
VF
HW/Ext

8. Circle the shapes that the net below will join to create a compound shape.

Hexagonal
pyramid

Square-based
pyramid

Pentagonal
prism



Cuboid

Pentagonal
pyramid

Hexagonal
prism



VF
HW/Ext

9. Match each person to their 3D shape.



The net of my shape has a circle, a rectangle and a sector.

Octagonal prism
with an octagonal
pyramid



There are squares and triangles in the net of my shape.

Cylinder with
a cone



There are 17 shapes
in the net of my shape.

Cube with a square-
based pyramid



RPS
HW/Ext

Homework/Extension

Nets of 3D Shapes

Developing

1. **A – pyramid; B – cuboid; C – cube**
2. **cuboid**
3. **Jess – cube; Seth – pyramid; Mia – cuboid**

Expected

4. **A – pyramid; B – cylinder; C – hexagonal prism**
5. **pentagonal pyramid**
6. **Brandon – cone; Millie – octagonal prism; Luke – truncated square-based pyramid**

Greater Depth

7. **A – octahedron; B – dodecahedron; C – icosahedron**
8. **pentagonal prism and pentagonal pyramid**
9. **Liam – cylinder with a cone; Freya – cube with a square-based pyramid; Danny – octagonal prism with an octagonal pyramid**