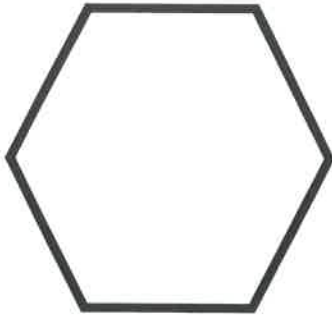# Reasoning about 3D Shapes

7a. Below is one shape from the net of a 3D shape.

Which 3D shapes include this shape? List the other 2D shapes you would need to complete the net.

PS

Reasoning about 3D Shapes

7b. Below is one shape from the net of a 3D shape.
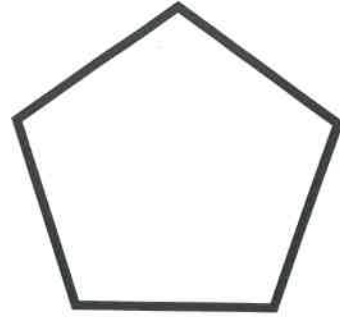
Which 3D shapes include this shape? List the other 2D shapes you would need to complete the net.
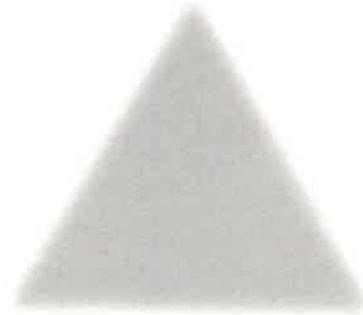
PS

8a. Which 3D shape could cast this shadow?

Explain your answer.

R

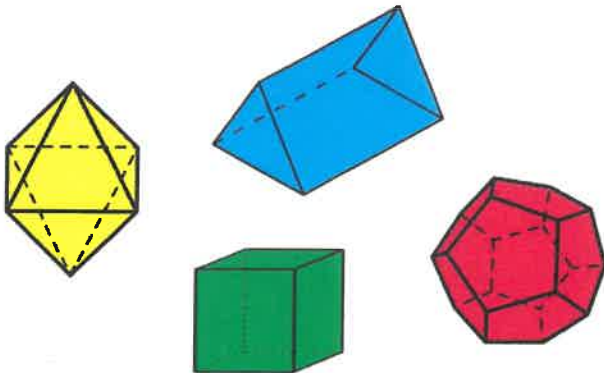**8b.** Which 3D shape could cast this shadow?

Explain your answer.

R

9a. Considering the properties of the shapes below, which is the odd one out?
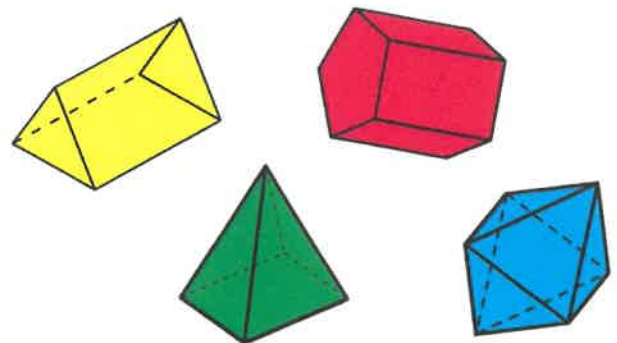
Explain your answer.

R

9b. Considering the properties of the shapes below, which is the odd one out?
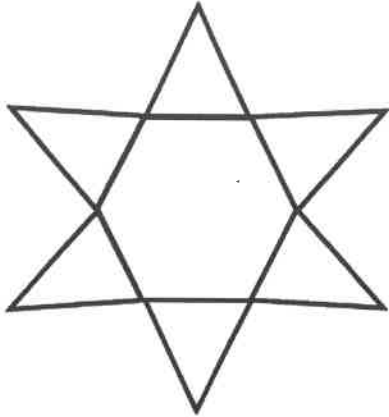
Explain your answer.
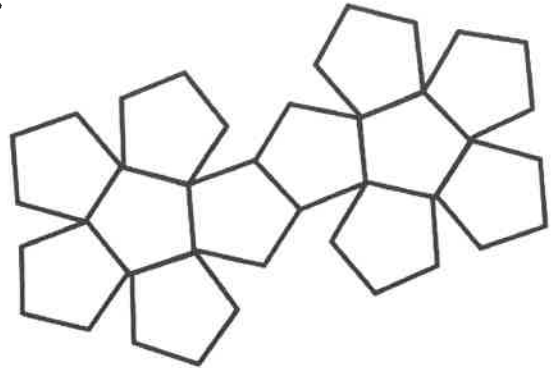
R

Reasoning about 3D Shapes

9a. Count and name the 2D shapes in this net.
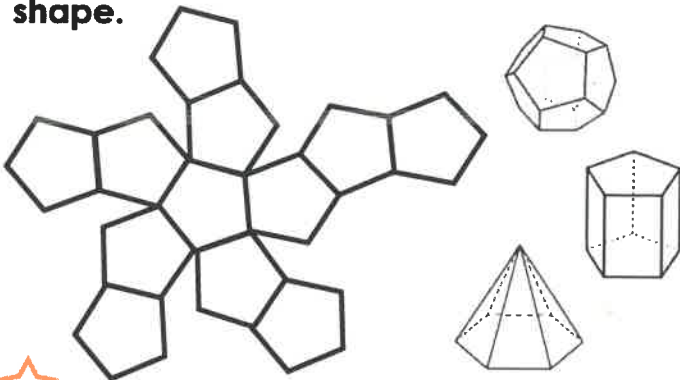
VF

Reasoning about 3D Shapes

9b. Count and name the 2D shapes in this net.
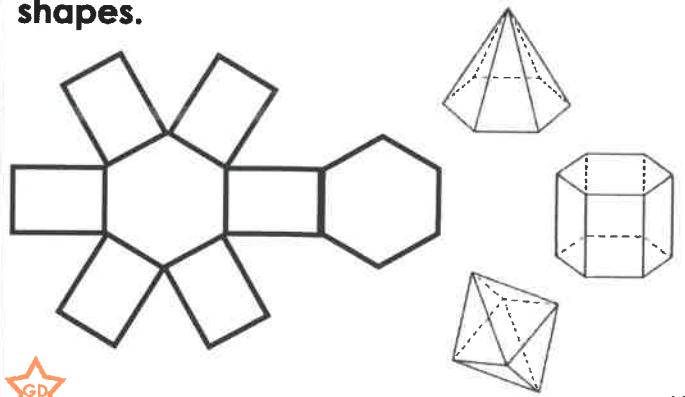
VF

10a. Match the net to the correct 3D shape.

VF

10b. Match the net to the correct 3D shapes.

VF

11a. Which 3D shape does the statement describe?

> I have 6 quadrilateral faces and two further faces that have two more sides than the other faces.

VF

11b. Which 3D shape does the statement describe?

> My base is a six sided shape and I have faces that have half the number of sides as the base.

VF

12a. Match the faces to the correct 3D shapes.

rectangular faces	tetrahedron
4 triangular faces	dodecahedron
All pentagonal faces	pentagonal prism

VF

12b. Match the faces to the correct 3D shapes.

1 curved face	tetrahedron
All triangular faces	hexagonal prism
6 rectangular faces	cylinder

VF