Name: _____

Date: _____   # Identify properties of 3-D shapes

Shape	Name	Vertices	Edges	Faces

Answers
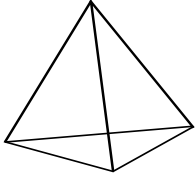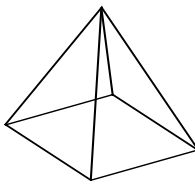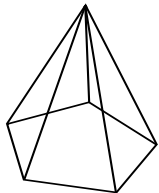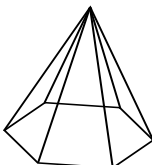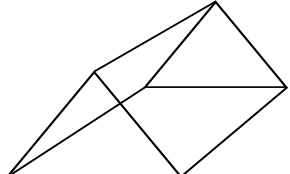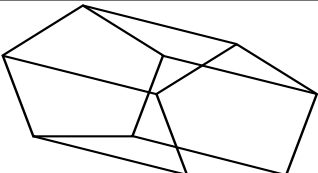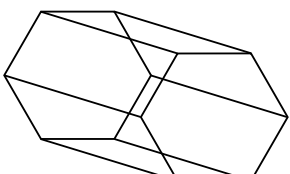
Shape	Name	Vertices	Edges	Faces
	Sphere	0	0	1
	Cube	8	12	6
	Cuboid	8	12	6
	Cone	0 / 1	1	2
	Cylinder	0	2	3
	Prism	6	9	5
	Pyramid	5	8	5
	Hemisphere	0	1	2
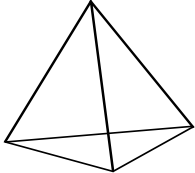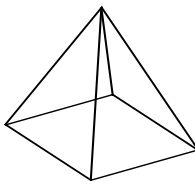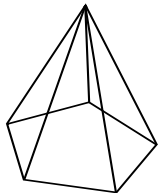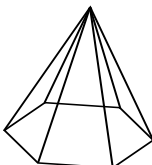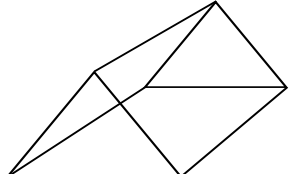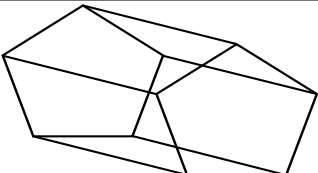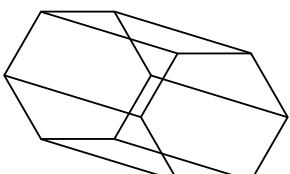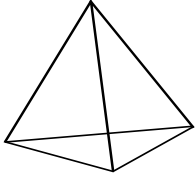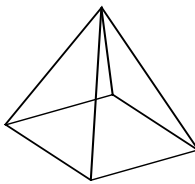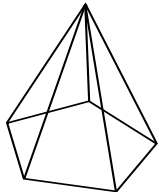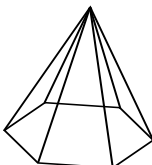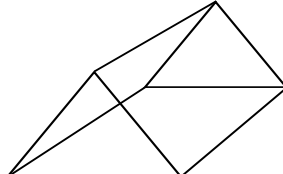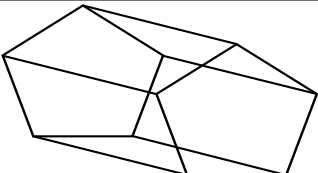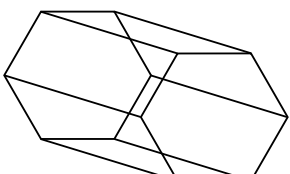
Identify properties of 3-D shapes

Shape	Name	Vertices	Edges	Faces

Identify properties of 3-D shapes

Shape	Name	Vertices	Edges	Faces
	based pyramid			
	based pyramid			
	based pyramid			
	based pyramid			
	prism			
	prism			
	prism			

Answers

Shape	Name	Vertices	Edges	Faces
	Triangular-based pyramid	4	6	4
	Square-based pyramid	5	8	5
	Pentagonal-based pyramid	6	10	6
	Hexagonal-based pyramid	7	12	7
	Triangular prism	6	9	5
	Pentagonal prism	10	15	7
	Hexagonal prism	12	18	8

Solve 3-D shape problems

The view you have of each of these 3-D shapes means that you can only see one of each of their faces.
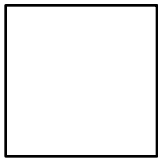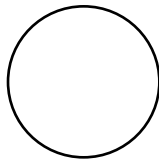
For each question make a list of the 3-D shapes that it could be

Sphere	Cube	Cuboid	Cone	Cylinder
Hemisphere		_____ - based pyramid		_____ prism

1) ▢

2) ◯

3) △
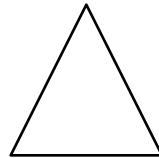
4) ▭
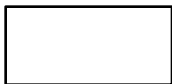
5) ⬡

6) ⬠

7) ⯃

8) ⬡

Answers

Sphere   Cube   Cuboid   Cone   Cylinder
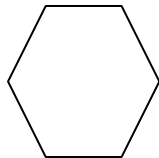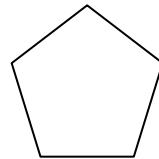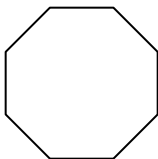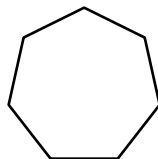
Hemisphere   _____ - based pyramid   _____ prism

1) Cube, cuboid and square-based pyramid

2) Cone, hemisphere and cylinder

3) Triangular prism and triangular-based pyramid

4) Cuboid (not all of the other prisms because you would always be able to see part of another face)

5) Hexagonal prism and hexagonal-based pyramid

6) Pentagonal-based pyramid and pentagonal prism

7) Octagonal-based pyramid and Octagonal prism

8) Heptagonal-based pyramid and heptagonal prism