Yr 4 Shape Unit 2 (4441)

Additional teacher instructions for practice sheets
These notes indicate which practice sheets are most appropriate for which groups.

Day 1 3D Shape facts Sheet 1
Working towards ARE / Working at ARE

Day 1 3D Shape facts Sheet 2
Greater Depth

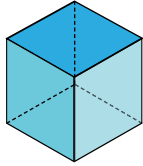**Day 2 Sorting 3D shapes Sheets 1 and 2**
Working towards ARE

Day 2 Sorting 3D shapes Sheets 3 and 4
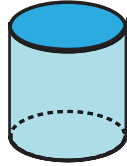Working at ARE / Greater Depth
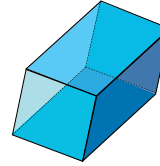
3-D shape facts
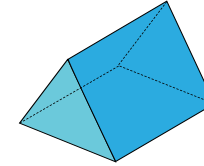## Sheet 1

Fill in the missing shape information.

Name: _____
Number of faces: _____
Number of edges: _12_
Number of vertices: _8_
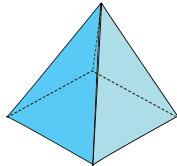Shape of faces: _6 squares_

Name: _____
Number of faces: _3_
Number of edges: _____
Number of vertices: _0_
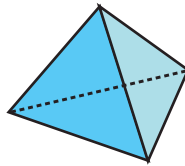Shape of faces: _2 circles, 1 curved_

Name: _cuboid_
Number of faces: _6_
Number of edges: _12_
Number of vertices: _____
Shape of faces: _____

Name: _triangular prism_
Number of faces: _____
Number of edges: _____
Number of vertices: _6_
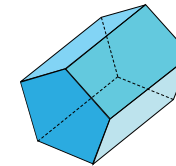Shape of faces: _2 triangles, 3 rectangles_

Name: _____
Number of faces: _____
Number of edges: _____
Number of vertices: _5_
Shape of faces: _____

Name: _____
Number of faces: _4_
Number of edges: _6_
Number of vertices: _____
Shape of faces: _____

Name: _____
Number of faces: _____
Number of edges: _1_
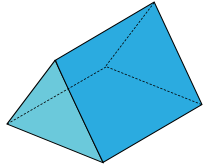Number of vertices: _____
Shape of faces: _____

Name: _pentagonal prism_
Number of faces: _7_
Number of edges: _____
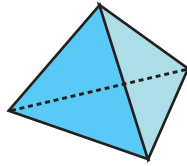Number of vertices: _____
Shape of faces: _____

3-D shape facts
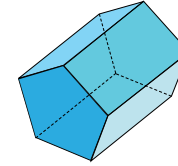## Sheet 2

Fill in the missing shape information.

Name: _triangular prism_

Number of faces: _____

Number of edges: _____
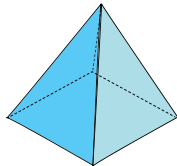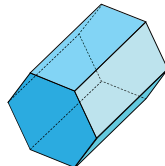
Number of vertices: _6_

Shape of faces: _____

Name: _____

Number of faces: _4_

Number of edges: _6_

Number of vertices: _____

Shape of faces: _____

Name: _____

Number of faces: _____

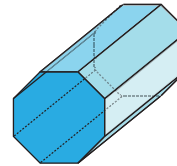Number of edges: _1_

Number of vertices: _____

Shape of faces: _____

Name: _pentagonal prism_

Number of faces: _7_

Number of edges: _____

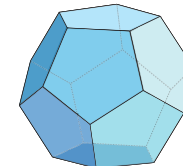Number of vertices: _____

Shape of faces: _____

Name: _____

Number of faces: _____

Number of edges: _____

Number of vertices: _5_

Shape of faces: _____

Name: _____

Number of faces: _____

Number of edges: _____

Number of vertices: _____

Shape of faces: _2 hexagons,_ _6 rectangles_

Name: _octagonal prism_

Number of faces: _____

Number of edges: _____

Number of vertices: _____

Shape of faces: _____

Name: _dodecahedron_

Number of faces: _____

Number of edges: _____

Number of vertices: _____

Shape of faces: _____
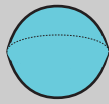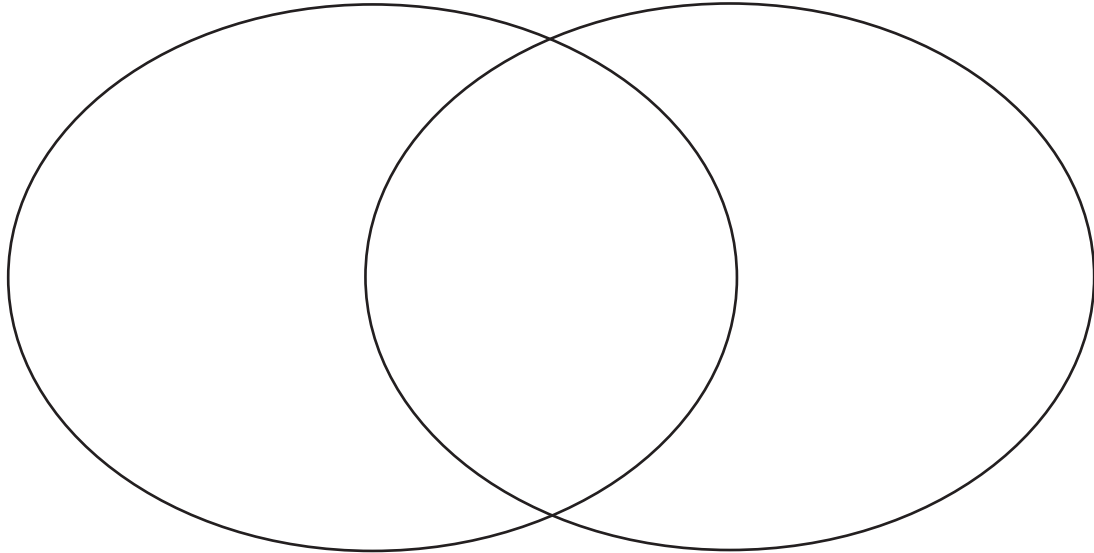
Sorting 3-D shapes
Sheet 1

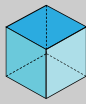Write the shape names in the right place in each Venn diagram.
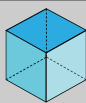
1.

flat faces   *can roll*

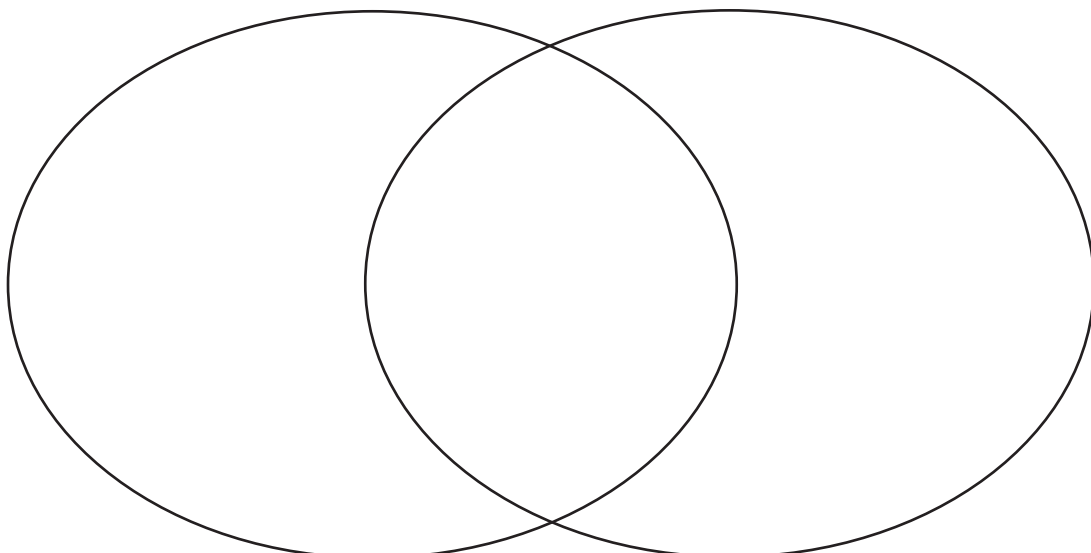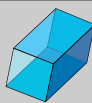sphere   cube   cylinder   cone

2.

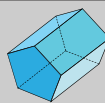*square faces*   *rectangle faces*
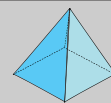
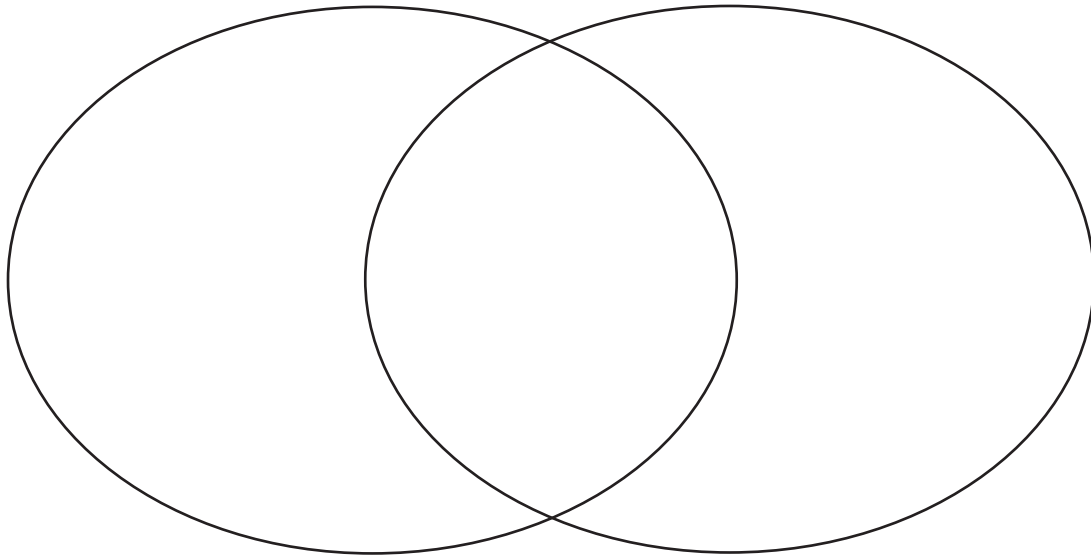cube   cuboid   pentagonal prism   square-based pyramid

Sorting 3-D shapes
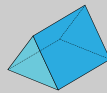## Sheet 2

3.

rectangle faces   *6 faces*

| hexagonal prism | cuboid | triangular prism | cube |

Challenge

Create your own Venn diagram to sort these shapes: cone, cylinder, sphere, hemisphere.
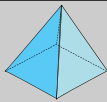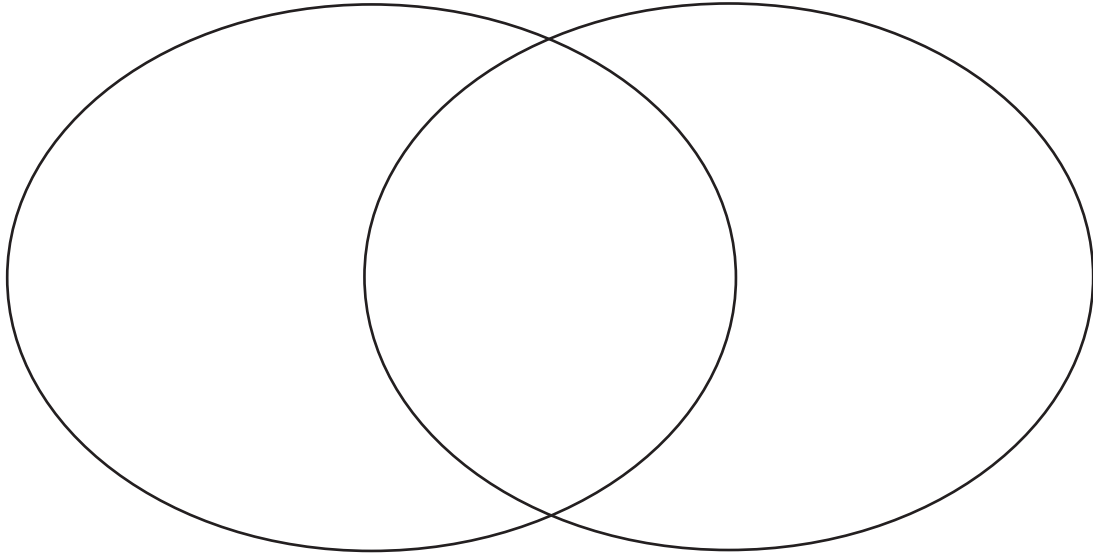
Sorting 3-D shapes

Write the shape names in the right place in each Venn diagram.
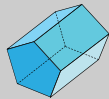
1.

triangle faces   *odd number of faces*
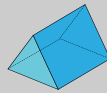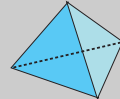
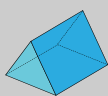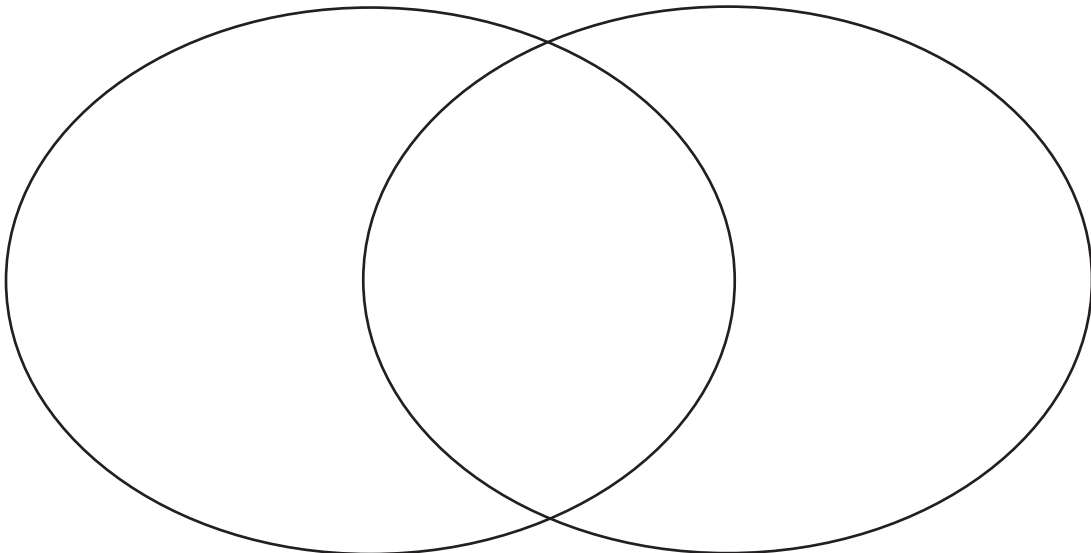square-based pyramid   pentagonal prism   triangular prism   tetrahedron
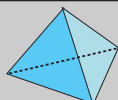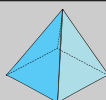
2.

even number of vertices   *even number of edges*
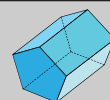
triangular prism   tetrahedron   square-based pyramid   pentagonal prism
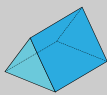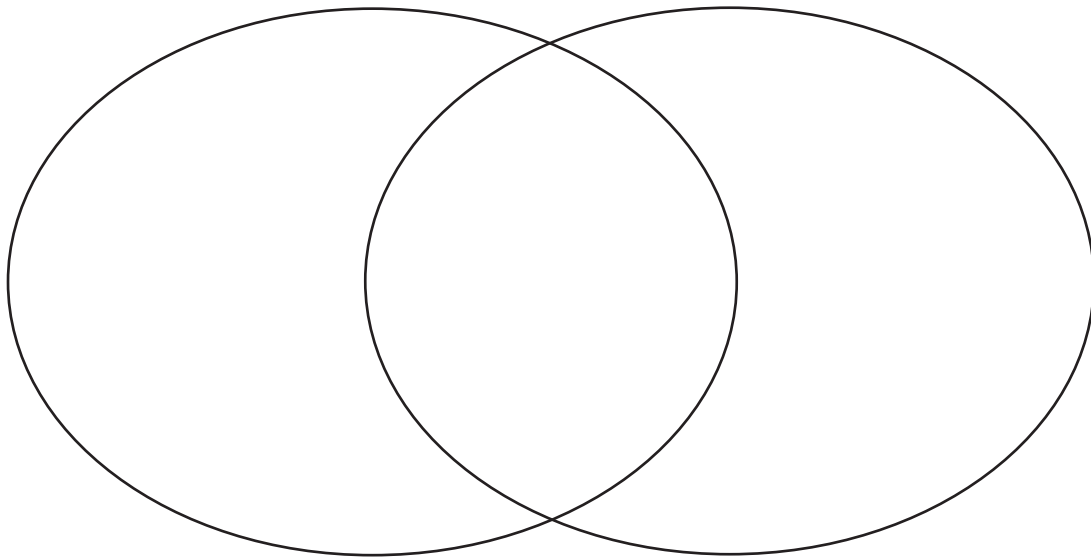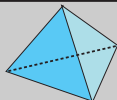
Sorting 3-D shapes
Sheet 4
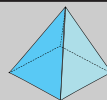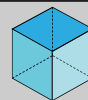
3.

triangle faces　　　　　　　*6 or more vertices*

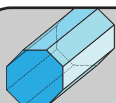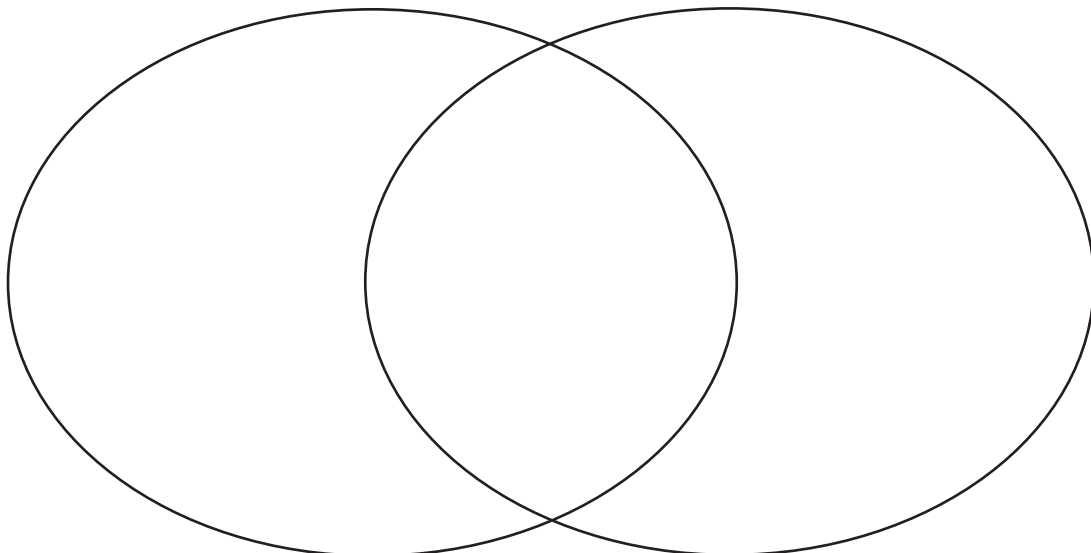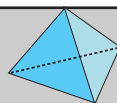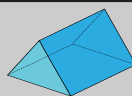triangular prism　　tetrahedron　　square-based pyramid　　cube

4.

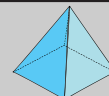*triangle faces*　　　　　　　*prism*

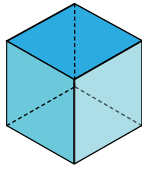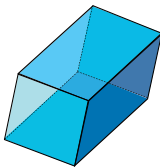octagonal prism　　tetrahedron　　triangular prism　　square-based pyramid

Shape
Answers

Day 1 3-D shape facts Sheet 1

Name: __cube__
Number of faces: __6__
Number of edges: __12__
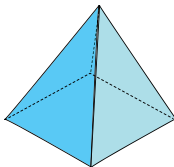Number of vertices: __8__
Shape of faces: __6 squares__

Name: __cylinder__
Number of faces: __3__
Number of edges: __2__
Number of vertices: __0__
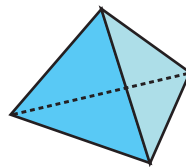Shape of faces: __2 circles, 1 curved__

Name: __cuboid__
Number of faces: __6__
Number of edges: __12__
Number of vertices: __8__
Shape of faces: __2 squares, 4 rectangles__
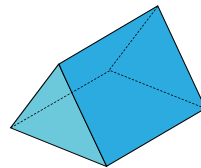
Name: __triangular prism__
Number of faces: __5__
Number of edges: __9__
Number of vertices: __6__
Shape of faces: __2 triangles, 3 rectangles__

Name: __square-based pyramid__
Number of faces: __5__
Number of edges: __8__
Number of vertices: __5__
Shape of faces: __1 square, 4 triangles__

Name: __pyramid__
Number of faces: __4__
Number of edges: __6__
Number of vertices: __4__
Shape of faces: __4 triangles__

Name: __cone__
Number of faces: __2__
Number of edges: __1__
Number of vertices: __1__
Shape of faces: __1 circle, 1 curved__

Name: __pentagonal prism__
Number of faces: __7__
Number of edges: __15__
Number of vertices: __10__
Shape of faces: __2 pentagons, 5 rectangles__
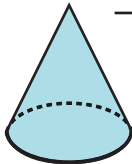
Shape
Answers

Day 1 3-D shape facts Sheet 2
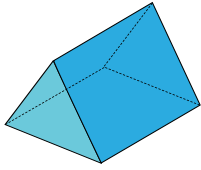
Name: _triangular prism_
Number of faces: _5_
Number of edges: _9_
Number of vertices: _6_
Shape of faces: _2 triangles, 3 rectangles_

Name: _cone_
Number of faces: _2_
Number of edges: _1_
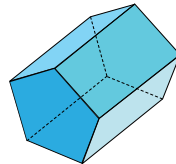Number of vertices: _1_
Shape of faces: _1 circle, 1 curved_

Name: _square-based pyramid_
Number of faces: _5_
Number of edges: _8_
Number of vertices: _5_
Shape of faces: _1 square, 4 triangles_

Name: _octagonal prism_
Number of faces: _10_
Number of edges: _24_
Number of vertices: _16_
Shape of faces: _2 octagons, 8 rectangles_

Name: _pyramid_
Number of faces: _4_
Number of edges: _6_
Number of vertices: _4_
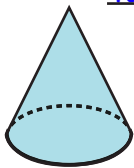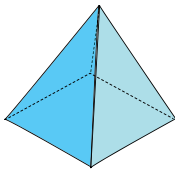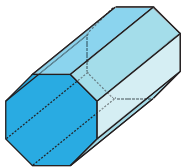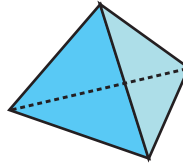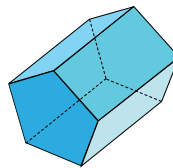Shape of faces: _4 triangles_

Name: _pentagonal prism_
Number of faces: _7_
Number of edges: _15_
Number of vertices: _10_
Shape of faces: _2 pentagons, 5 rectangles_
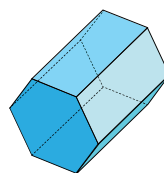
Name: _hexagonal prism_
Number of faces: _8_
Number of edges: _18_
Number of vertices: _12_
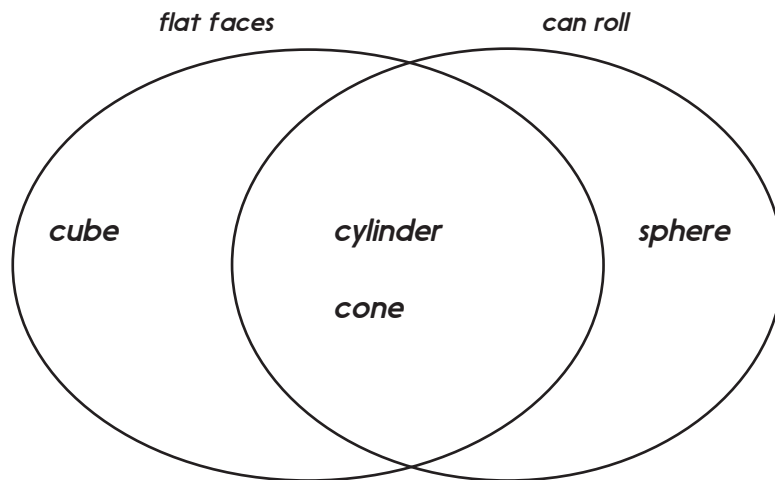Shape of faces: _2 hexagons, 6 rectangles_
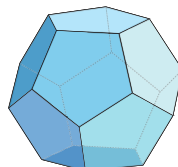
Name: _dodecahedron_
Number of faces: _12_
Number of edges: _30_
Number of vertices: _20_
Shape of faces: _12 pentagons_

Shape

Answers

Day 2 Sorting 3-D shapes Sheet 1 and 2

1.

flat faces   can roll

cube   cylinder   sphere

cone

2.

square faces   rectangle faces

cube   cuboid   pentagonal prism

square-based pyramid

3.

rectangle faces   6 faces

triangular prism   cube

hexagonal prism   cuboid
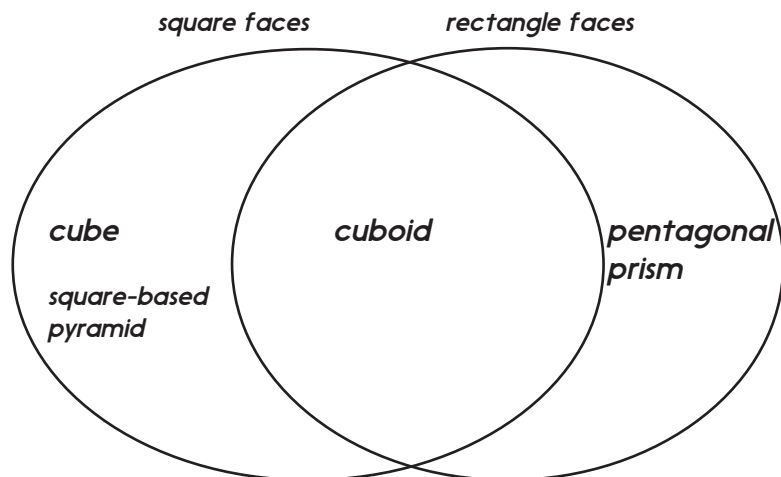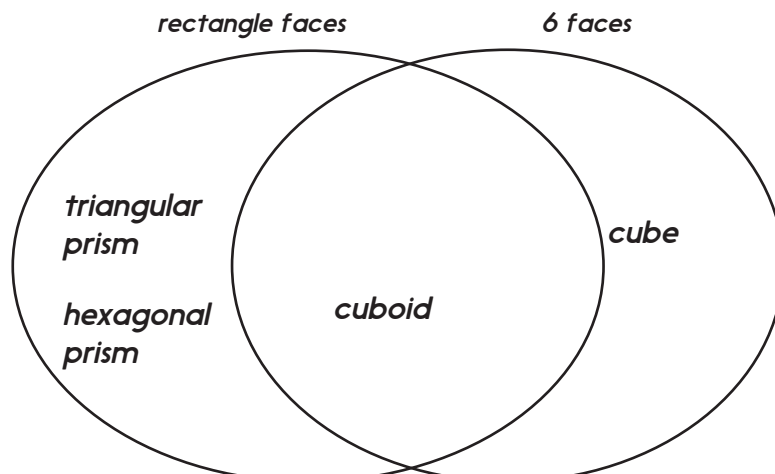
Shape

Answers

Day 2 Sorting 3-D shapes Sheet 3 and 4

1.

triangle faces   *odd number of faces*

tetrahedron

square-based pyramid

triangular prism

pentagonal prism

2.

even number of vertices   *even number of edges*

triangular prism

pentagonal prism

tetrahedron

square-based pyramid

3.

triangle faces   *6 or more vertices*

tetrahedron

square-based pyramid

triangular prism

cube

4.

triangle faces   *prism*

tetrahedron

square-based pyramid

triangular prism

octagonal prism