

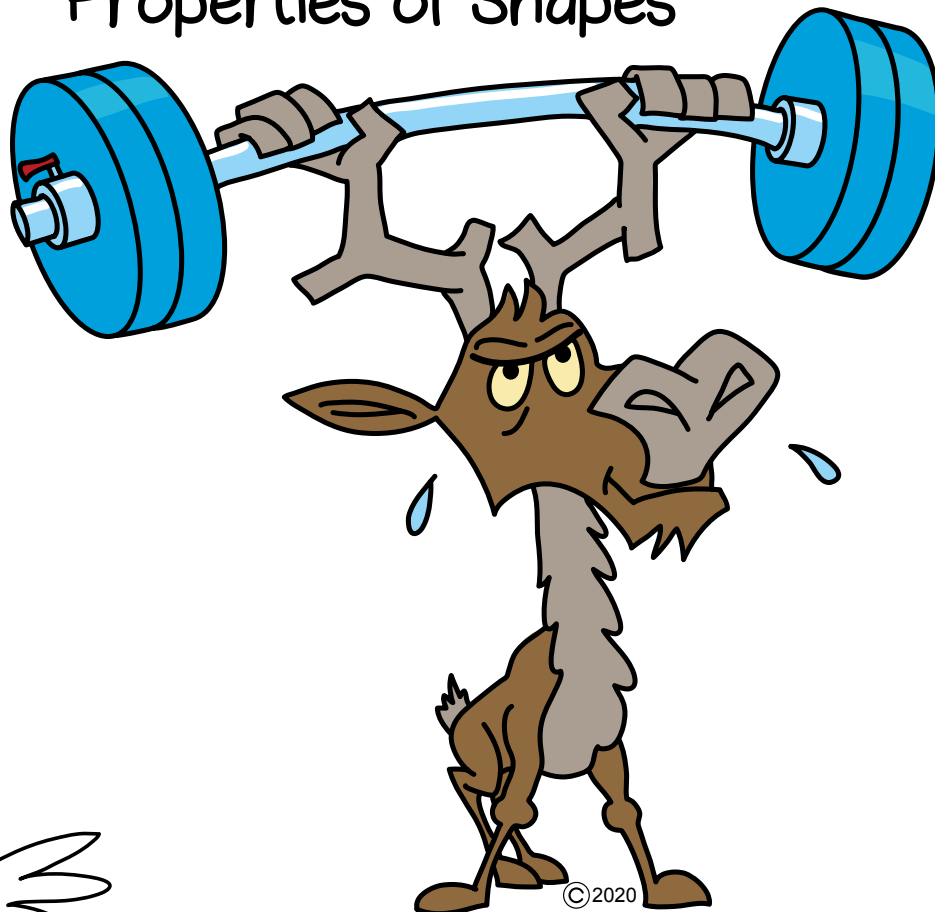


Colin and Coco's Deliberate Practice

Year 2 Unit 5

Geometry
Properties of Shapes

Answers





Contents

This pack of deliberate practice is designed to be used flexibly to secure the manageable steps of this unit.

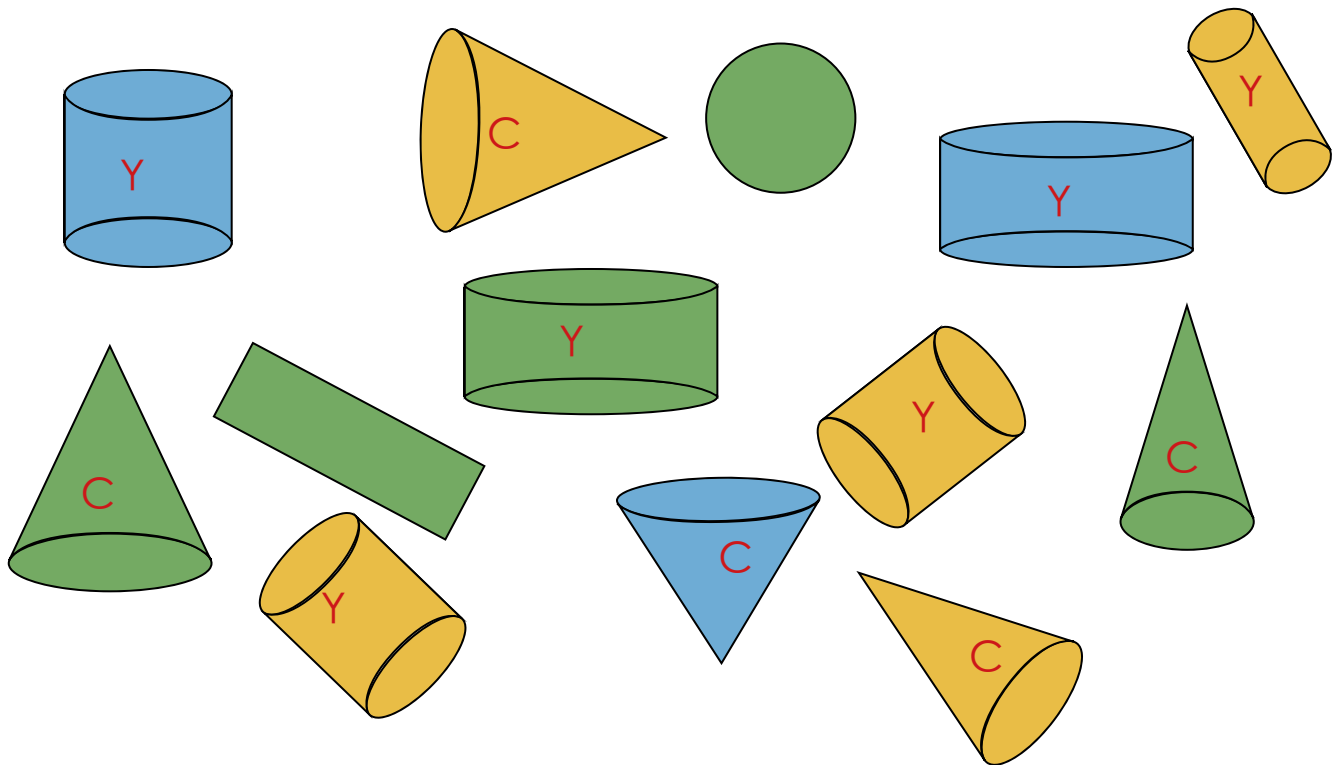
The table below indicates which activities are linked to which manageable steps.

	Do It	Challenge It	Play It
Identify and describe the properties of cylinders	1	1	
Identify and describe the properties of cones	1	1	
Identify and describe 2-D shapes on the surface of 3-D shapes	2	1	1
Compare and sort 3-D shapes and explain how they are similar or different		2	
Compare and sort 2-D shapes and explain how they are similar or different			2



Do It 1

Label cylinders with Y.
Label cones with C.



Challenge It 1



Colin is looking at cylinders and cones.
He can see 6 circles.

How many cones could there be?
How many cylinders could there be?
How many cones and cylinders could there be?

What if Colin could see 8 circles?



2D on 3D Game

Play It 1

You need:

3-D Shape cards

To play:

Shuffle the cards and place them face down.

Players take it in turns to turn over a card. Name a 2D shape that is on the surface of the shape and score the number of faces that are that shape.

For example: Player 1 turns over a Square-based pyramid

2D shape named - triangle

Score 4 because there are 4 triangle faces.

Player 2 turns over a cylinder

2D shape named - circle

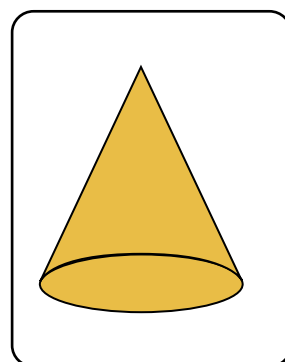
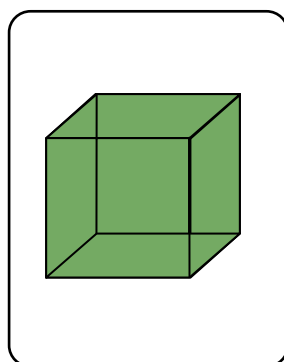
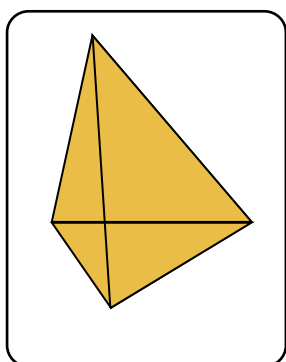
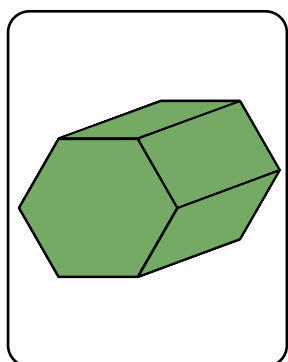
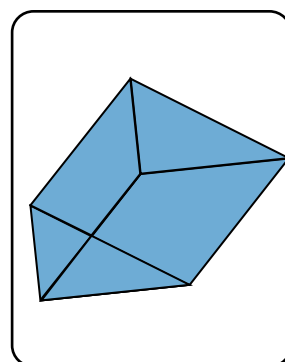
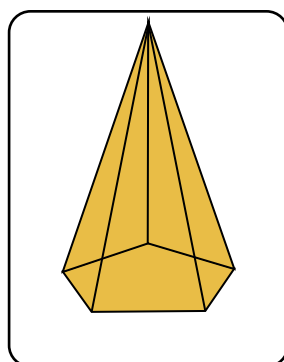
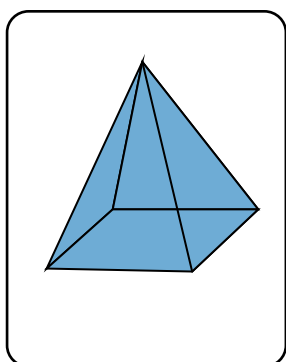
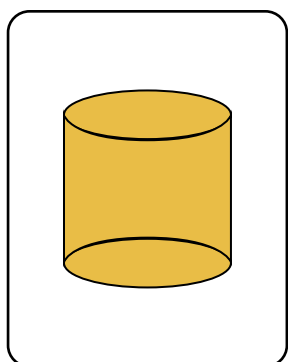
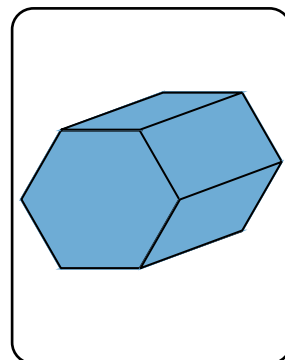
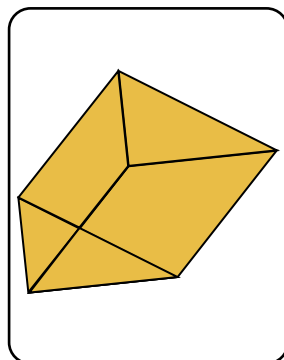
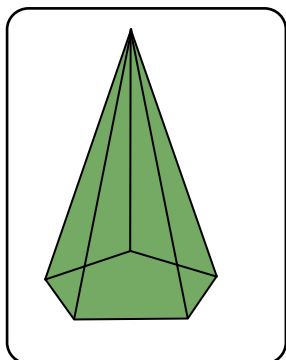
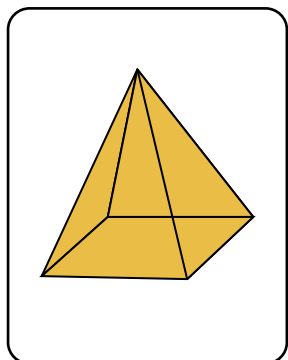
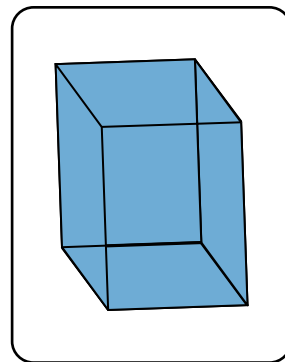
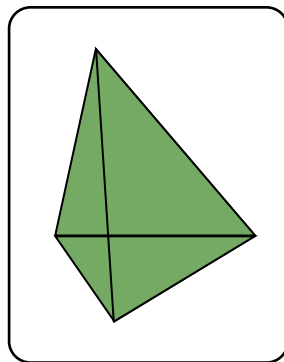
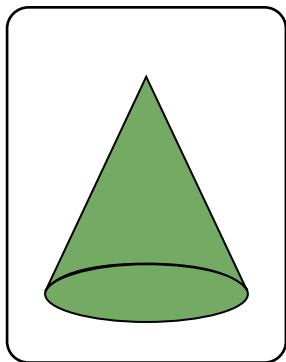
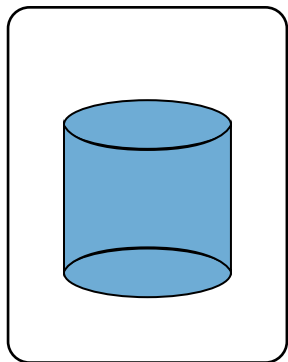
Score 2 because there are 2 circular faces

To win:

The winner is the first player to score 20 points



3D Shape Cards



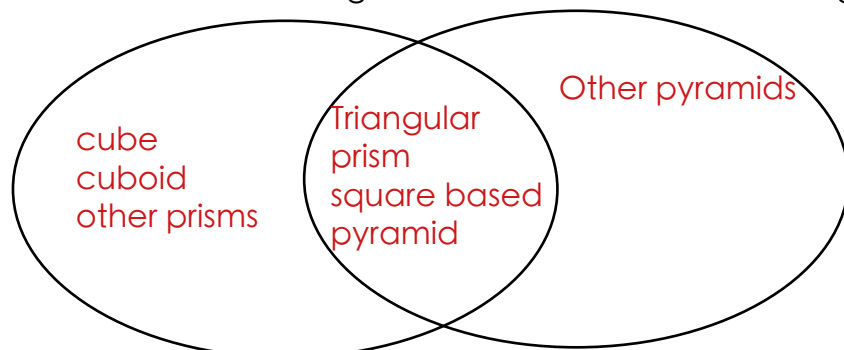


Sort the 3-D shapes.

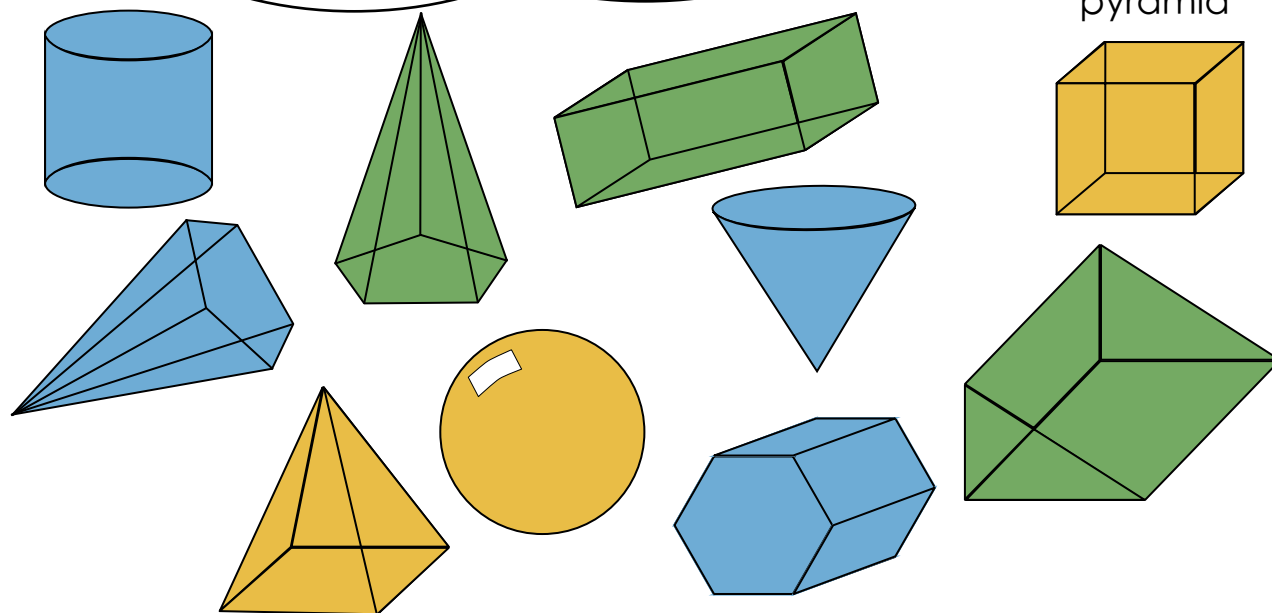
Do It 2

Faces that are rectangles

Faces that are triangles



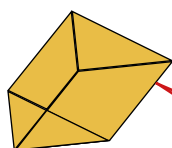
cylinder
pentagonal based
pyramid
cube
cuboid
sphere
triangular prism
square based
pyramid



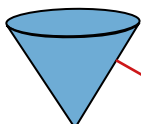
Match the shape to the description.

Challenge It 2

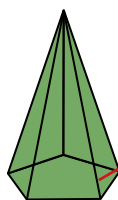
cube



cylinder



cuboid



hexagonal based pyramid

6 vertices

6 faces

rectangle faces

triangle faces

circle faces



The Same and Different

Play It 2

You need:

2-D Shapes Cards

To play: (This is a collaborative activity.)

Shuffle the cards and put them face down.

Both players take a card.

Player 1 states something that is the same about the two shapes.

Player 2 states something that is different about the two shapes.

For example:

Player 1: Both of our shapes are rectangles.

Player 2: My rectangle is a square. Yours is not because it does not have four equal sides.

Players swap roles.



2D Shape Cards

