Year 3

Properties of Shapes Booklet
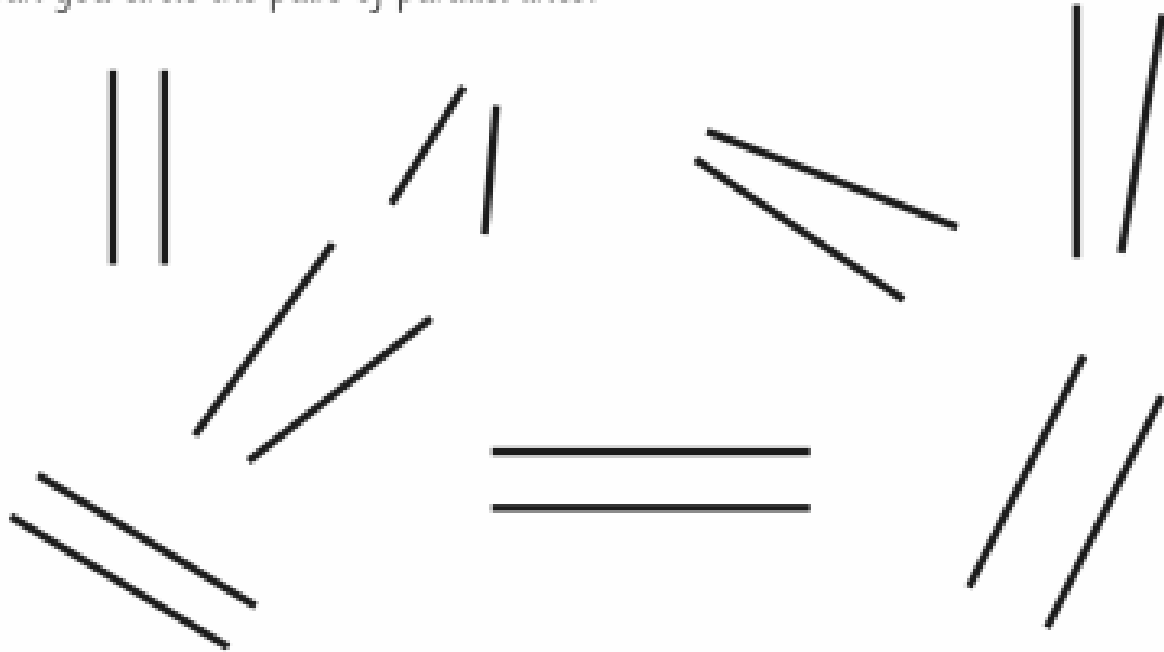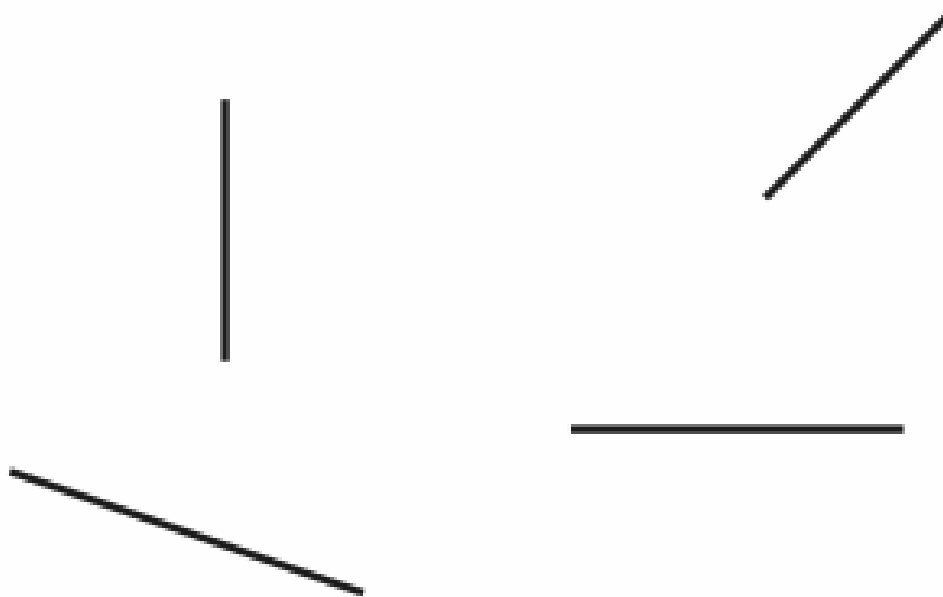
w/c 1st June 2020

Name: ……………………………………………………………………

Identifying Parallel Lines
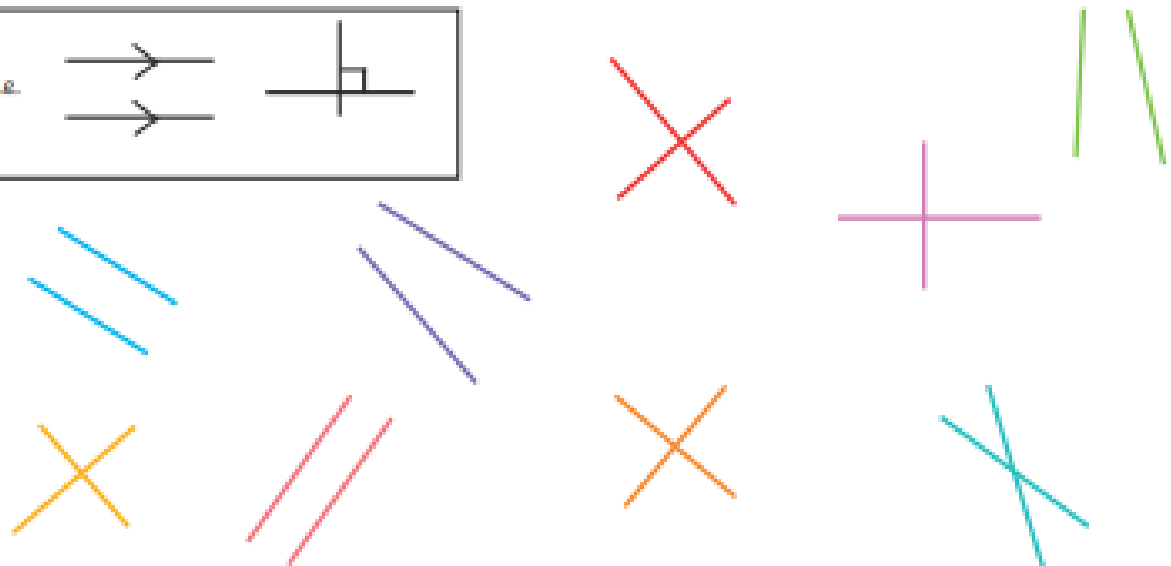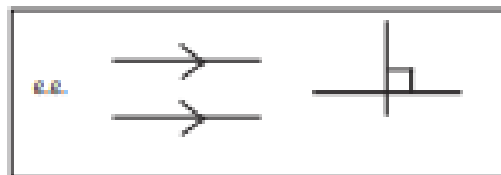
Can you circle the pairs of parallel lines?

Can you draw lines which are parallel to each of these?

Parallel and Perpendicular Lines

Can you label all the lines which are parallel or perpendicular? Use arrows for parallel lines and a right angle sign for perpendicular lines.

Can you draw a picture using only parallel lines and perpendicular lines?

Label any parallel or perpendicular lines. Use arrows for parallel lines and a right angle sign for perpendicular lines.
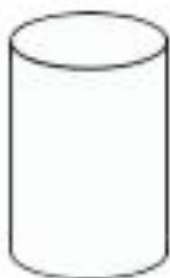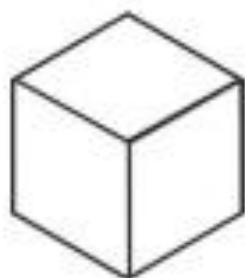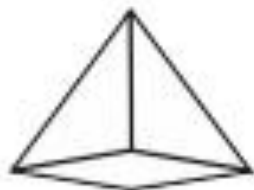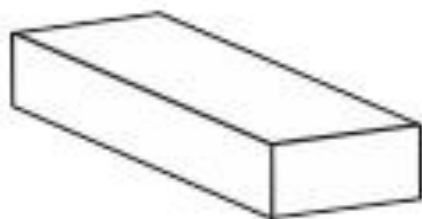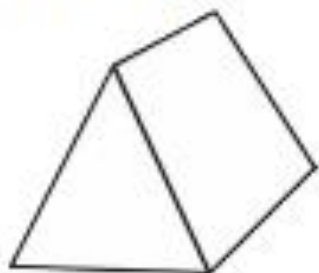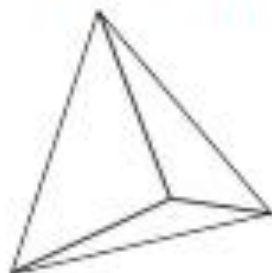
Name the 3D Shape

Amazing Fact

The shape with the largest number of sides is called the rhombicosidodecahedron. Try saying that 3 times, fast!

Challenge

Write the name of the 3D shapes beneath each picture.

_____   _____   _____

_____   _____   _____

_____   _____

You could also try to find out:

- how many faces the rhombicosidodecahedron has;

- which 2D shapes its faces are made of;

- if you can find a rhombicosidodecahedron shape net.

2D Shape Draw

Read the instructions carefully and draw shapes that match the description in the boxes. Don't forget to use a ruler!

Shape	Description	Picture
Triangle	3 sides of different lengths.	
Quadrilateral	Try to draw something other than a square or rectangle!	
Pentagon	(5-sided shape)	
Hexagon	(____-sided shape)	
Heptagon	(7-sided shape)	
Octagon	(__ - sided shape)	

Now have a go at these test-style questions...

Remember to read the question carefully before you start to answer.

1.

a) Draw a quadrilateral (use a ruler):

b) Draw an octagon (use a ruler):

2. Complete the following boxes.

Properties

Number of faces: ☐

Number of vertices: ☐

Number of edges: ☐

Name of shape ☐

3. Name a shape with the following properties:
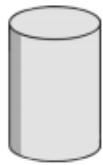
7 faces
15 edges
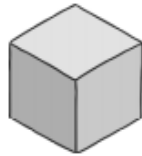**10** vertices

5 of the faces are rectangles.

Name of shape ☐

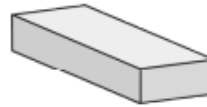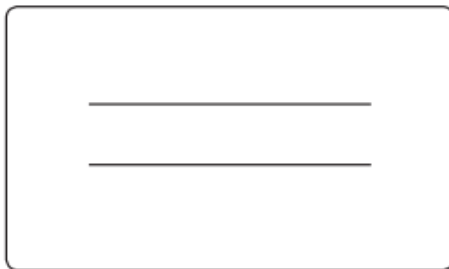4. Write the names of the 3D shapes in the correct place in the table.
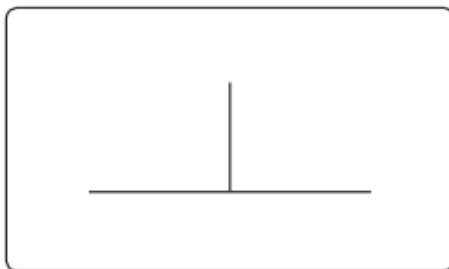
Cylinder   Cube   Cone   Cuboid

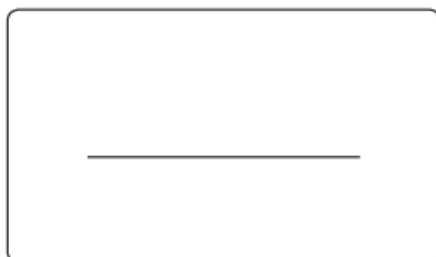|	Has at least one curved face	Has no curved faces
Has at least one square face		
Has no square faces		

5. Complete the description of each drawing:

a) These lines are: pa _____

b) These lines are: per _____

c) This line is: h _____

d) This line is: v _____