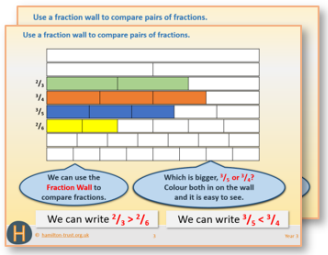
Week 6, Day 3

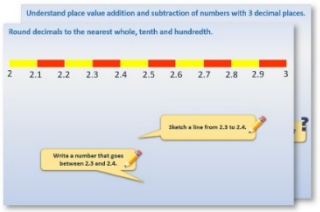
Describe properties of 2-D shapes, including polygons.

Each day covers one maths topic. It should take you about 1 hour or just a little more.

1. If possible, watch the **PowerPoint presentation** with a teacher or another grown-up.



OR start by carefully reading through the **Learning Reminders**.



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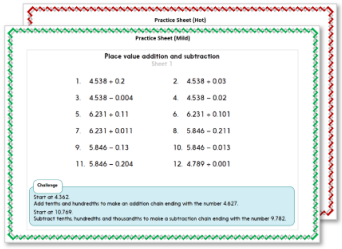
2. Tackle the questions on the **Practice Sheet**.
   There might be a choice of either Mild (easier) or Hot (harder)!
   Check the answers.



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3. Finding it tricky? That's OK… have a go with a grown-up at **A Bit Stuck?**

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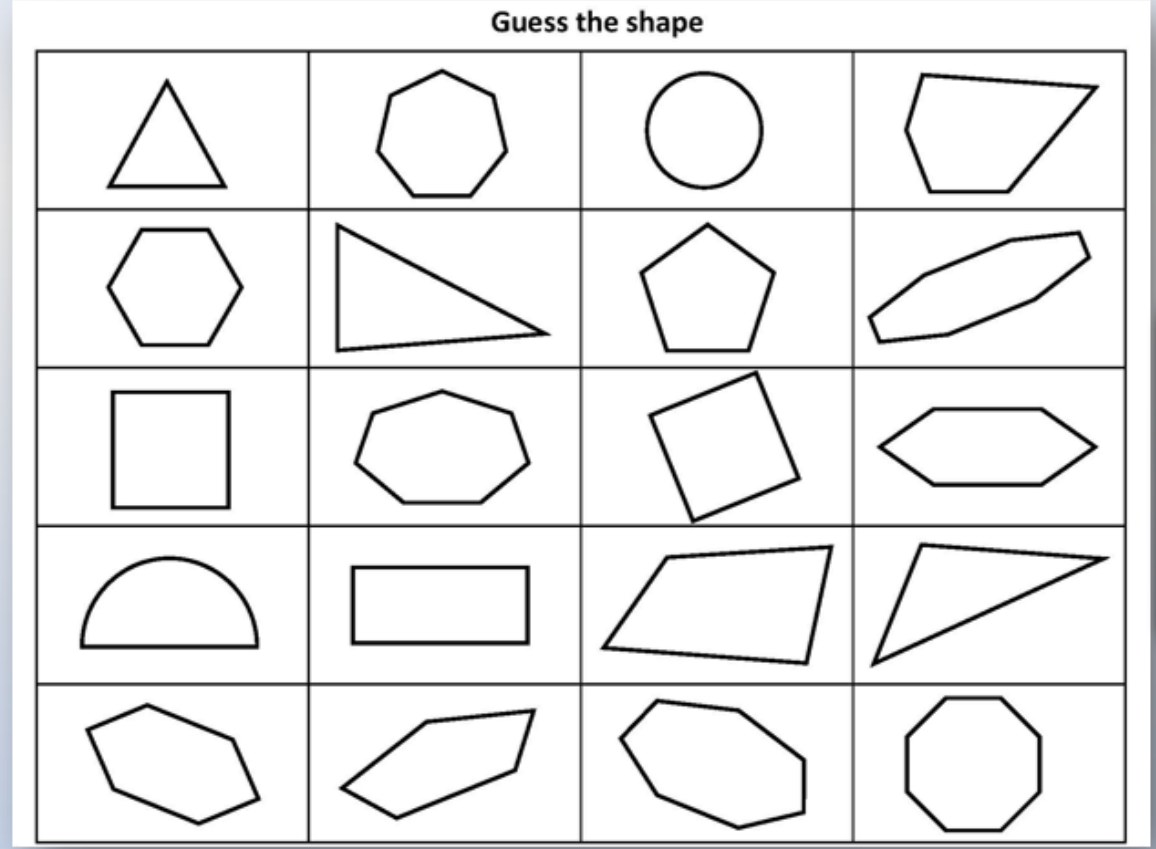
4. Think you've cracked it? Whizzed through the Practice Sheets?
   Have a go at the **Investigation**…

Learning Reminders

Describe properties of 2-D shapes including polygons.



Note how most of the shapes are polygons. Shapes with all straight sides are called polygons. Circles, ovals and semicircles are not polygons even though they are 2-D shapes.

Learning Reminders

Describe properties of 2-D shapes including polygons.

Some useful vocabulary for describing shapes, this will help you with today's activities.

polygon

regular/irregular

number of vertices

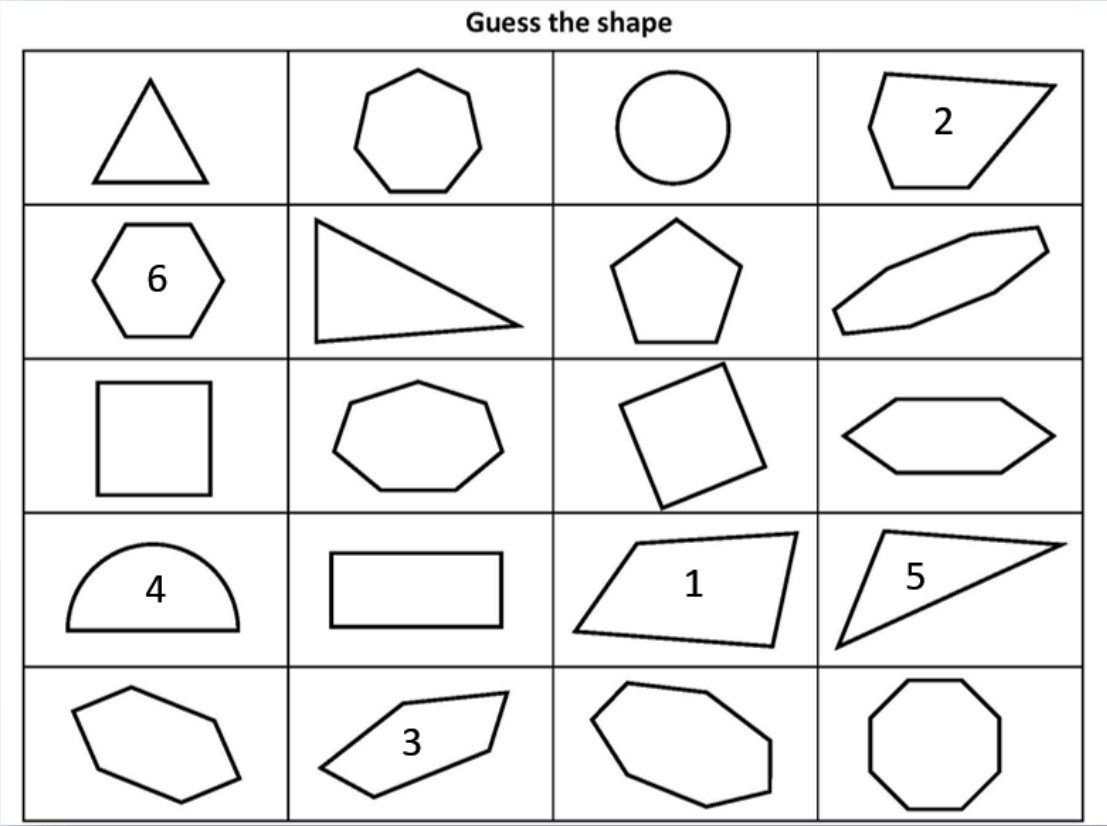
number of sides

right/obtuse/acute angles

lines of symmetry

Learning Reminders

Describe properties of 2-D shapes including polygons.



Shape properties – some examples. Can you name the shapes?

1. This has 4 sides and no lines of symmetry.

2 and 3. These shapes are irregular polygons with 5 sides.

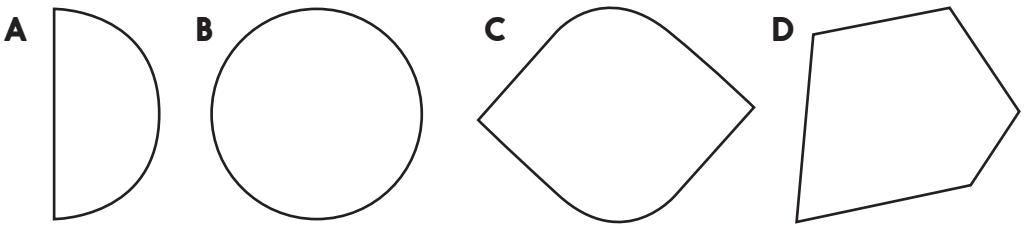
4. This shape is not a polygon and has one line of symmetry.

5. This shape has 3 vertices and 1 obtuse angle.

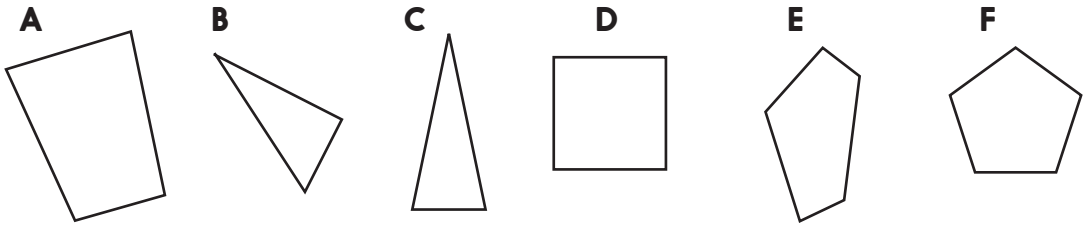
6. This shape has 6 vertices and all the sides are the same length.

Practice Sheet Mild
Properties of 2-D shapes

1. i) Which of these is a polygon? _____
   ii) Why? _____



2. Look at these shapes.

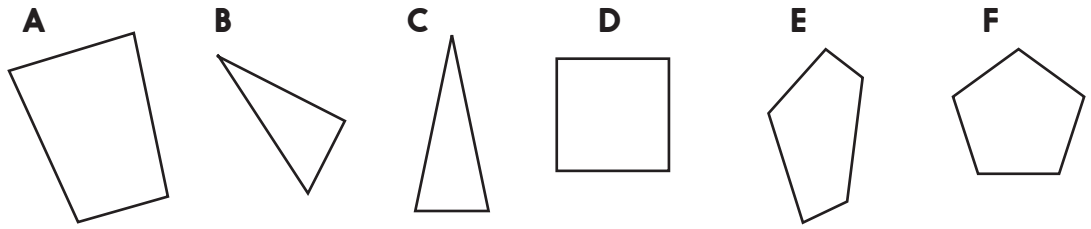


Match the shapes to each description below:

A triangle: _____ and _____
A quadrilateral: _____ and _____
A pentagon: _____ and _____
A symmetrical polygon: _____, _____ and _____
A regular polygon: _____ and _____
An irregular polygon: _____, _____, _____ and _____

Practice Sheet Hot
Properties of 2-D shapes

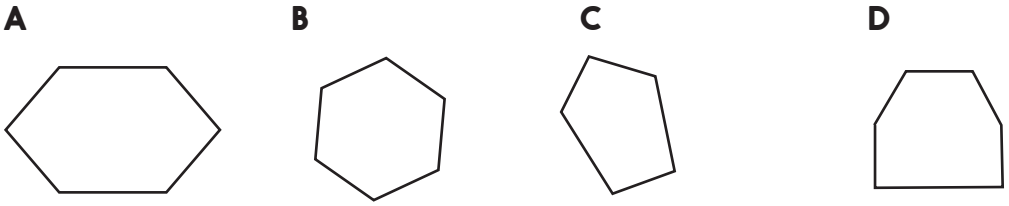
1. Look at these shapes.



Match the shapes to each description below:

A triangle: _____ and _____
A quadrilateral: _____ and _____
A pentagon: _____ and _____
A symmetrical polygon: _____, _____ and _____
A regular polygon: _____ and _____
An irregular polygon: _____, _____, _____ and _____

2. Which shape is <u>not</u> a hexagon? _____



Challenge

Draw four polygons with different numbers of sides.
Label them A, B, C and D.
Make up a quiz to test whether a partner can describe and identify each,
e.g. 1. How many pairs of parallel sides does it have?
2. Name three different types of this shape.
3. How many of me do you need to build a square based pyramid?