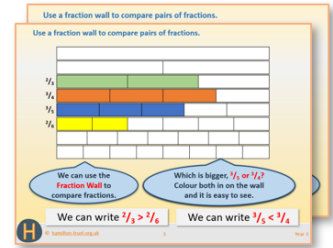


Week 6, Day 3

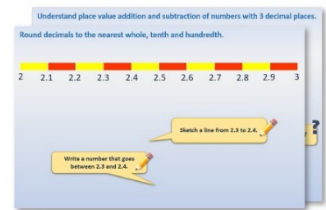
Describe properties of 2-D shapes, including polygons.

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**.



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

Practice Sheet (Hot)

Practice Sheet (Mild)

Place value addition and subtraction

| | |
|--------------------|--------------------|
| 1. $4538 + 0.2$ | 2. $4538 - 0.03$ |
| 3. $4538 - 0.004$ | 4. $4538 - 0.02$ |
| 5. $4231 + 0.11$ | 6. $4231 - 0.101$ |
| 7. $4231 - 0.011$ | 8. $5846 - 0.211$ |
| 9. $5846 - 0.13$ | 10. $5846 - 0.013$ |
| 11. $5846 - 0.204$ | 12. $4799 - 0.001$ |

Overseas

Year 6 (Hot)

Add tenths and hundredths to make an addition chain ending with the number 4.827.

Year 6 (Mild)

Subtract tenths, hundredths and thousandths to make a subtraction chain ending with the number 9.782.

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

Decide the decimal

Decide the decimal

Work in pairs

Things you will need:

- 10 centimeter ruler- 10 paper
- 10 pins

What to do:

- Work in groups and partition with three decimal places like the 1000ths.
- Use a ruler (placed in three places on the place value chart) which will make the number.
- Use your paper and ruler.
- Your partner looks at the shaded squares and writes the corresponding number.
- Use your three decimal places, match your number!
- Use your ruler to measure.
- Use different combinations to make numbers on the place value grid. Numbers should be written on the 10 cent.

Challenge

Use the ruler to measure the length of the ruler and write the number.

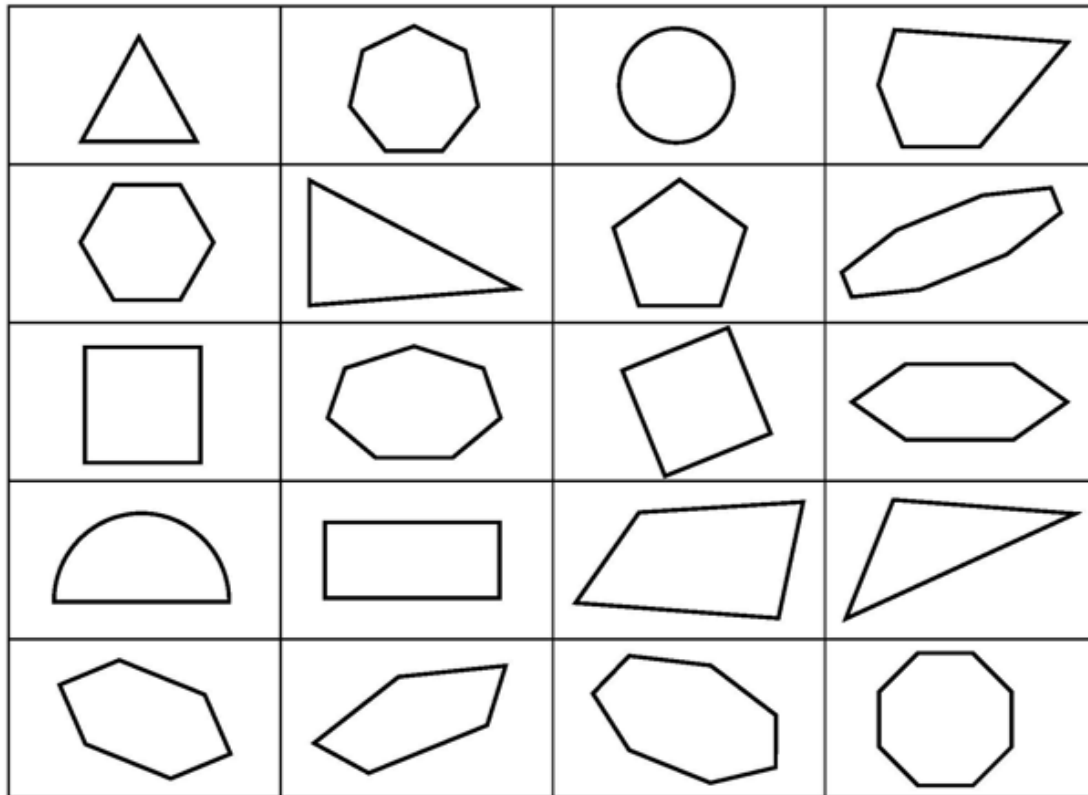
0.001

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.

Guess the shape



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

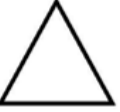

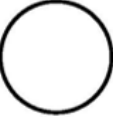
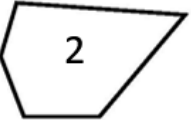

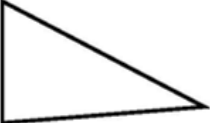



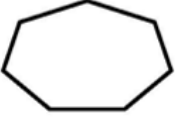
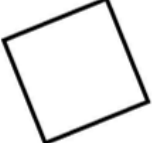
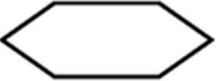
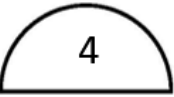
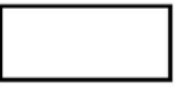
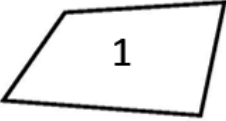
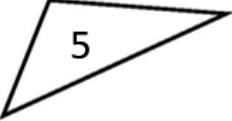
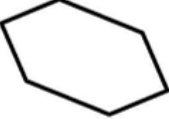
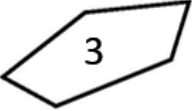

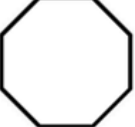
right/obtuse/acute angles

lines of symmetry

Learning Reminders

Describe properties of 2-D shapes including polygons.

Guess the shape

| | | | |
|---|---|--|---|
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

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.

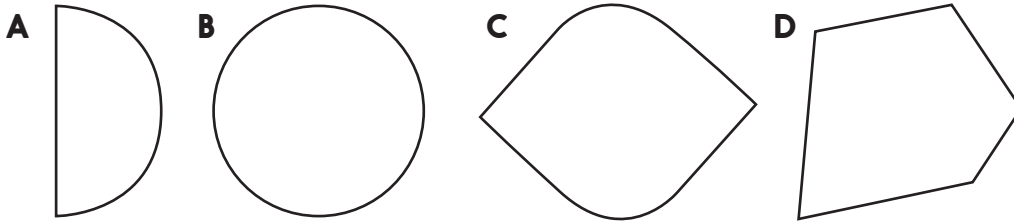
5. This shape has 3 vertices and 1 obtuse angle.

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

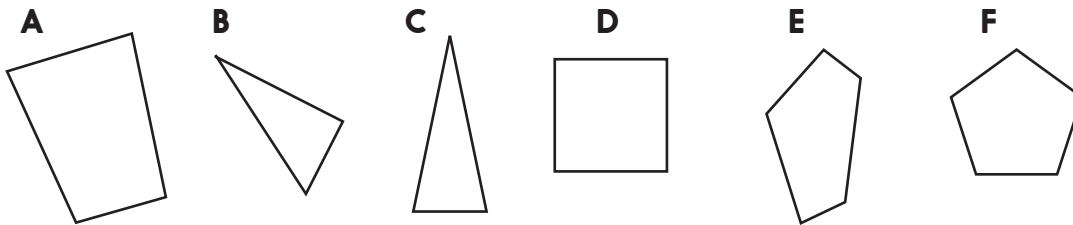
Practice Sheet Mild

Properties of 2-D shapes

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



2. Look at these shapes.



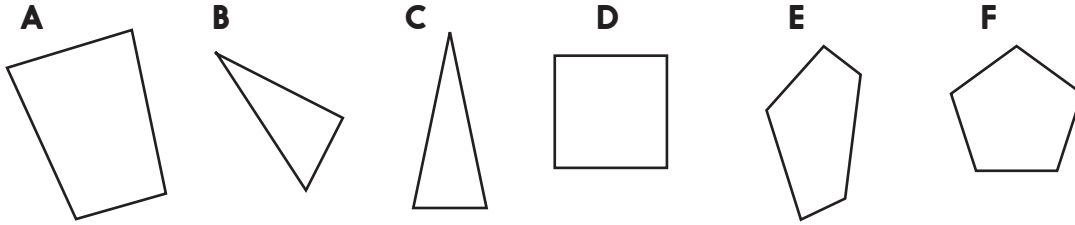
Match the shapes to each description below:

- 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

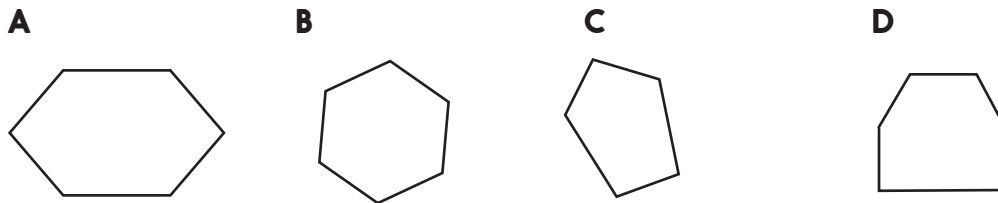
1. Look at these shapes.



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 not 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?