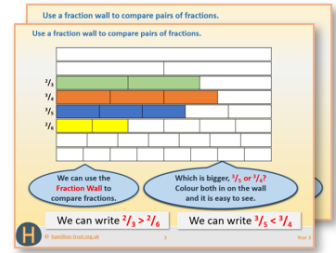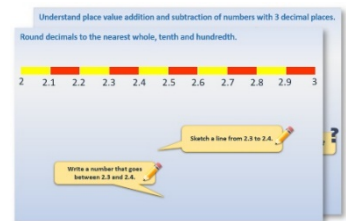# Year 2: Week 5, Day 4
Sorting 2-D shapes

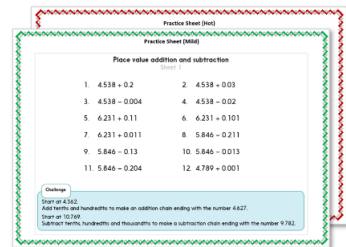**Each day covers one maths topic. It should take you about 1 hour or just a little more.**

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

    OR start by carefully reading through the **Learning Reminders**.
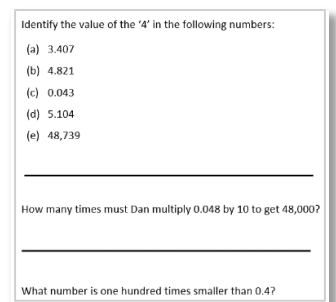
2. Tackle the questions on the **Practice Sheet**.
    There might be a choice of either Mild (easier) or Hot (harder)!
    Check the answers.

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

4. Have I mastered the topic? A few questions to **Check your understanding**.
    Fold the page to hide the answers!

Learning Reminders

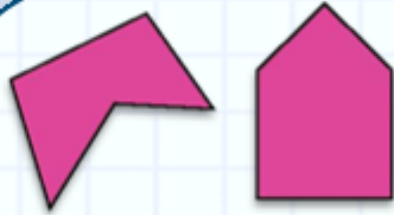**Describe and recognise regular and irregular 2-D shapes.**

What's the same about these shapes?
What's different about them?

All the sides of the shapes are straight but the number of sides is different!

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Learning Reminders

Describe and recognise regular and irregular 2-D shapes.

These each have **5 sides** and are **pentagons**. 'Pent' means 5 (it comes from Greek penta).

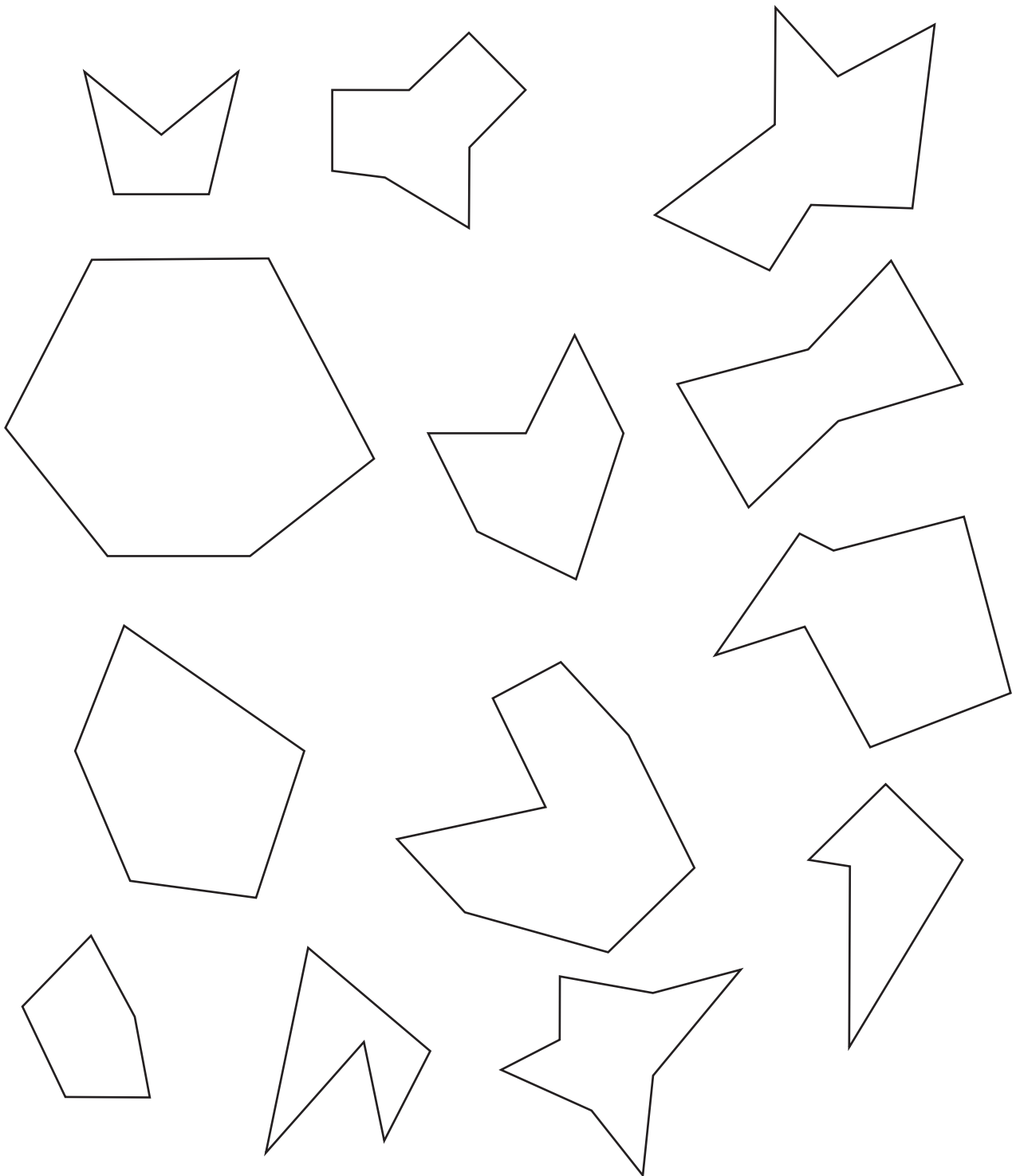These each have **6 sides** and are **hexagons**. 'Hex' means 6.

This shape has **8 sides**. It is called an **octagon**. 'Oct' means 8. Can you think of any other words beginning 'oct-'?

Practice Sheet Mild
Shape practice

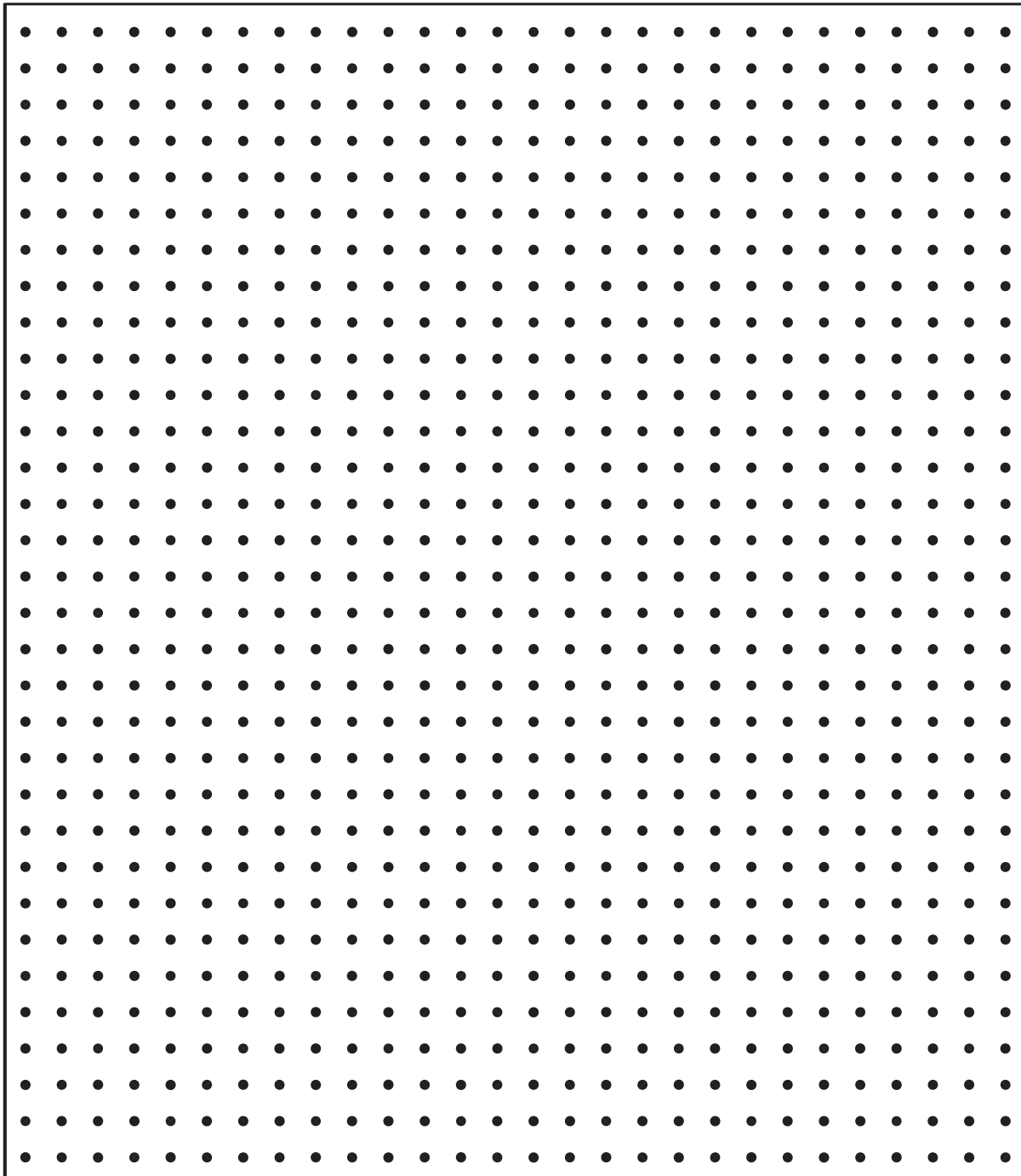Colour the pentagons blue, the hexagons green and the octagons orange.

Challenge

Are there any shapes left over? Draw two more shapes that have the same number of sides. Can you name these shapes?

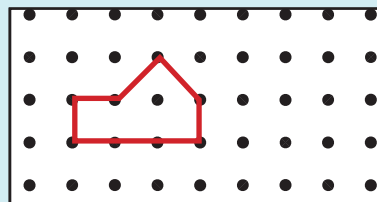Explore more Hamilton Trust Learning Materials at https://wrht.org.uk/hamilton

Shape practice

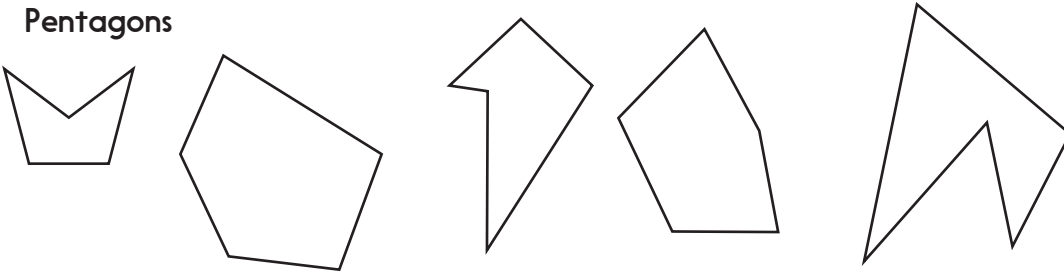Draw and label different looking pentagons, hexagons and octagons.

Challenge

Sarah drew this shape on her grid:
She said, "It's an octagon because it goes through 8 dots."
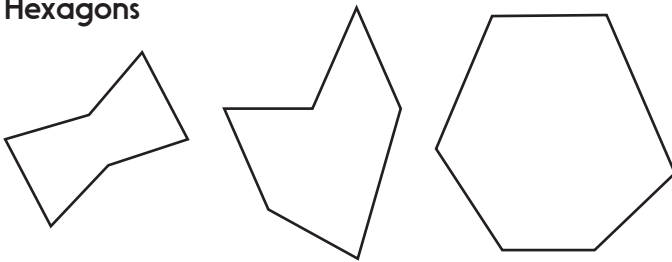Do you agree with her?

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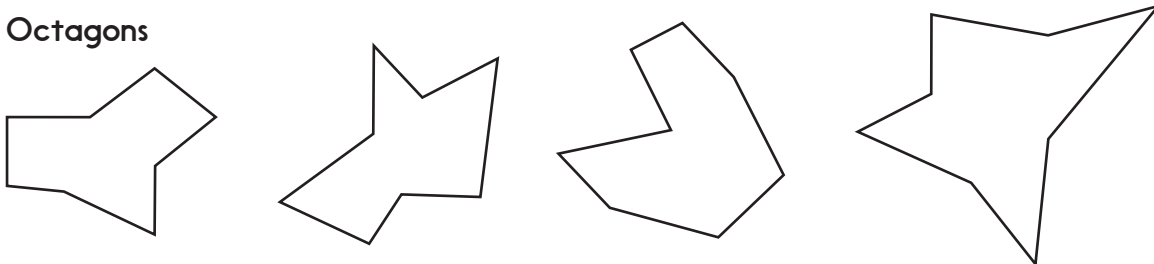
Practice Sheet Answers
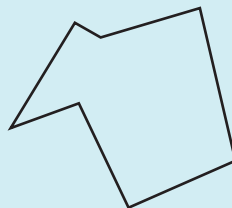
Shape practice (Mild)

Pentagons

Hexagons

Octagons

Challenge

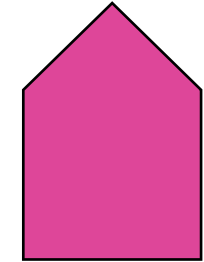This shape is left over:

It has 7 sides and is a heptagon.

Shape practice (Hot)
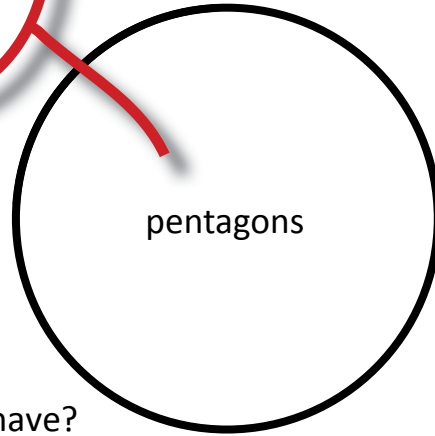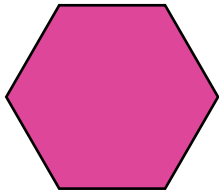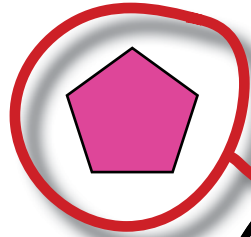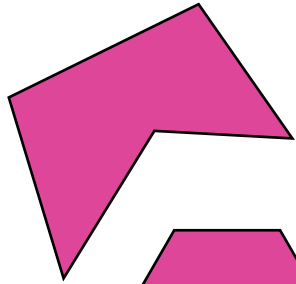
Challenge

Sarah is wrong. Her shape is a hexagon as it has 6 sides. If it was an octagon it would have 8 sides.

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pentagons
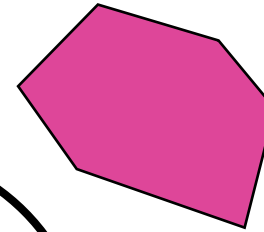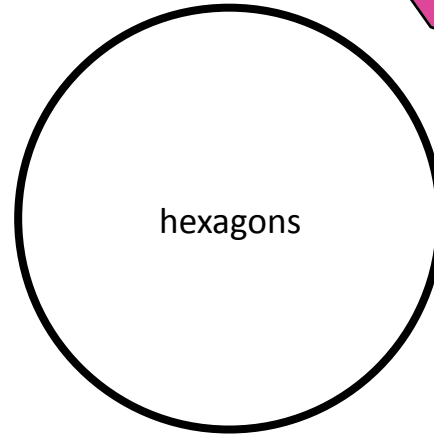
hexagons

octagons

How many sides does a pentagon have?
How many sides does a hexagon have?
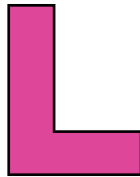How many sides does an octagon have?
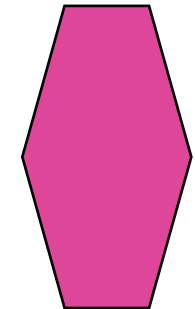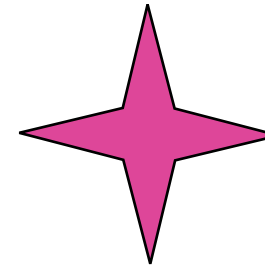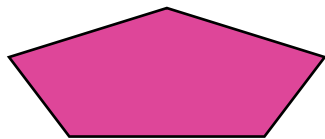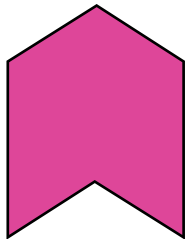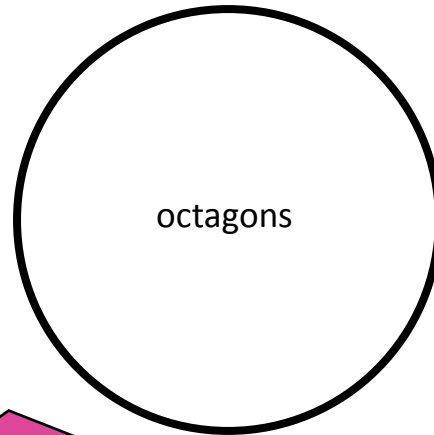
S-t-r-e-t-c-h
Draw at least another two shapes that
could belong in each set.
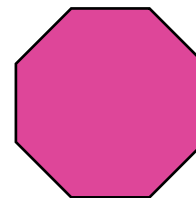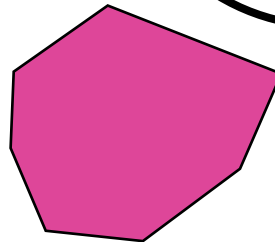
Check your understanding:
Questions

Draw at least three differently shaped, irregular hexagons.
Draw another that has one line of symmetry.

___

True or false?

- All hexagons have straight sides

- A pentagon is always house-shaped

- Any shape with four sides and four right angles is a type of rectangle

- A hexagon could have four right angles

Check your understanding:
Answers

Draw at least three differently shaped irregular hexagons.
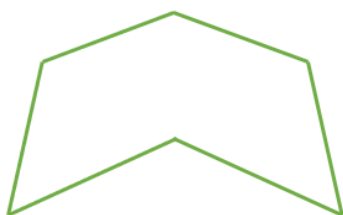
Check that shapes have 6 sides and are closed figures; children should be using a ruler and sharp pencil to draw shapes, e.g.

Draw another that has one line of symmetry.

This can be checked with a mirror, e.g.

True or false?

- All hexagons have straight sides

  True, since it is a polygon and polygons always have straight sides.

- A pentagon is always house-shaped

  False – can have many different appearances and a regular pentagon (5 equal sides and angles) is not 'house-shaped'.

- Any shape with four sides and four right angles is a type of rectangle

  True – by definition a rectangle is a shape with 4 sides and 4 right angles. Note that this includes a square, which is a special type of rectangle.

- A hexagon could have four right angles

  True – it would be irregular.