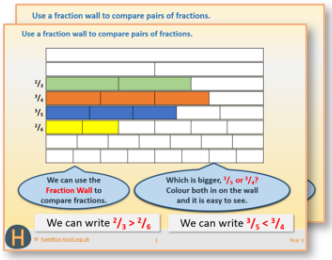
Year 2: Week 5, Day 5

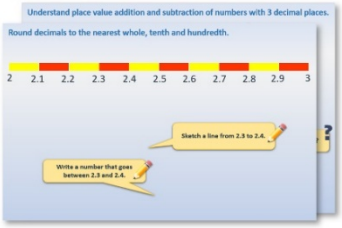
Describe 2-D shapes

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**.



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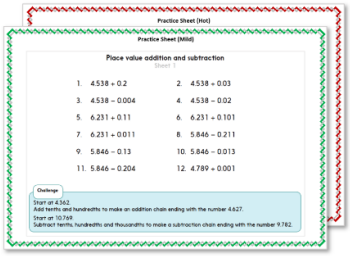
2. Tackle the questions on the **Practice Sheet**.
There might be a choice of either Mild (easier) or Hot (harder)!
Check the answers.



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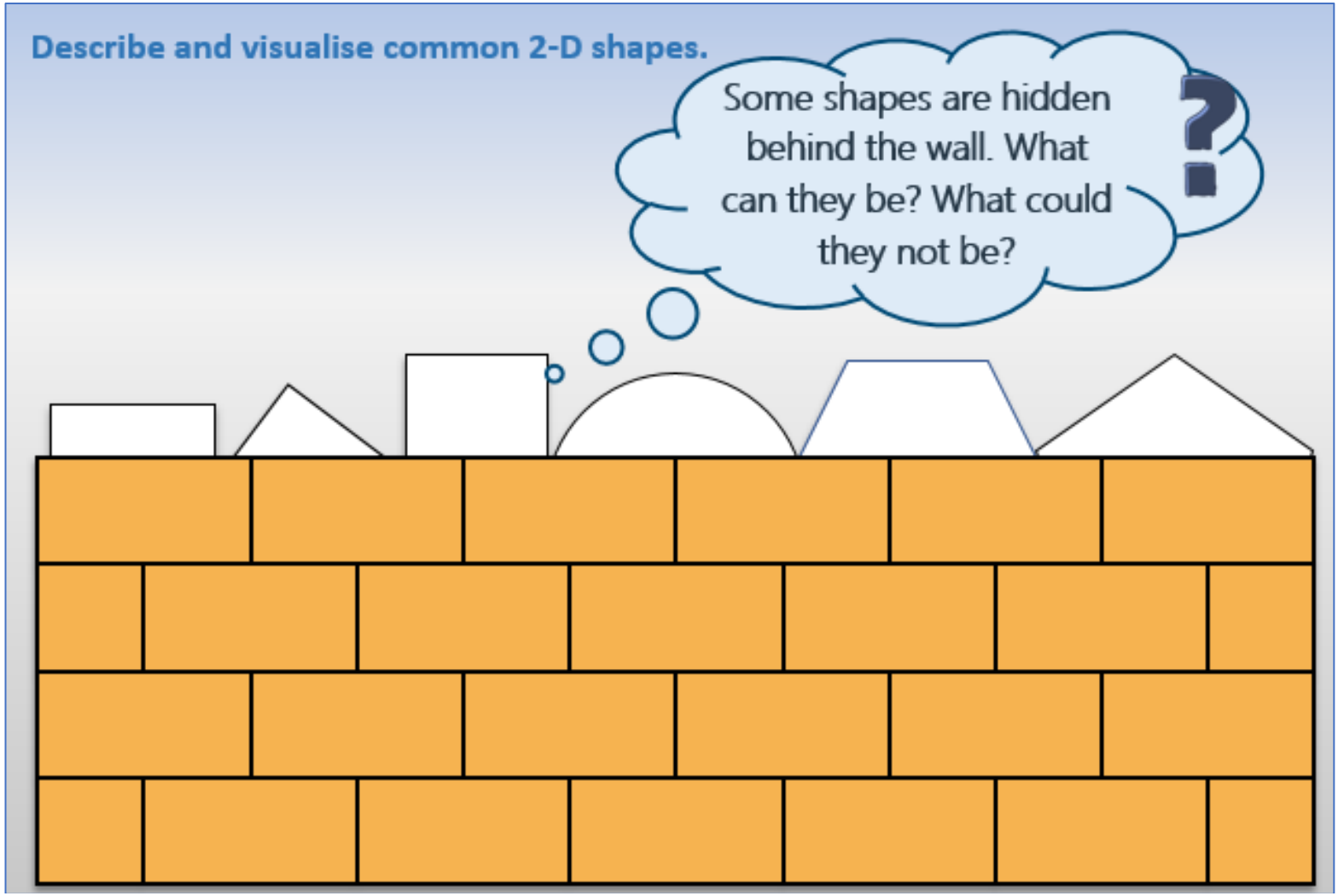
4. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the **Investigation**…

Learning Reminders



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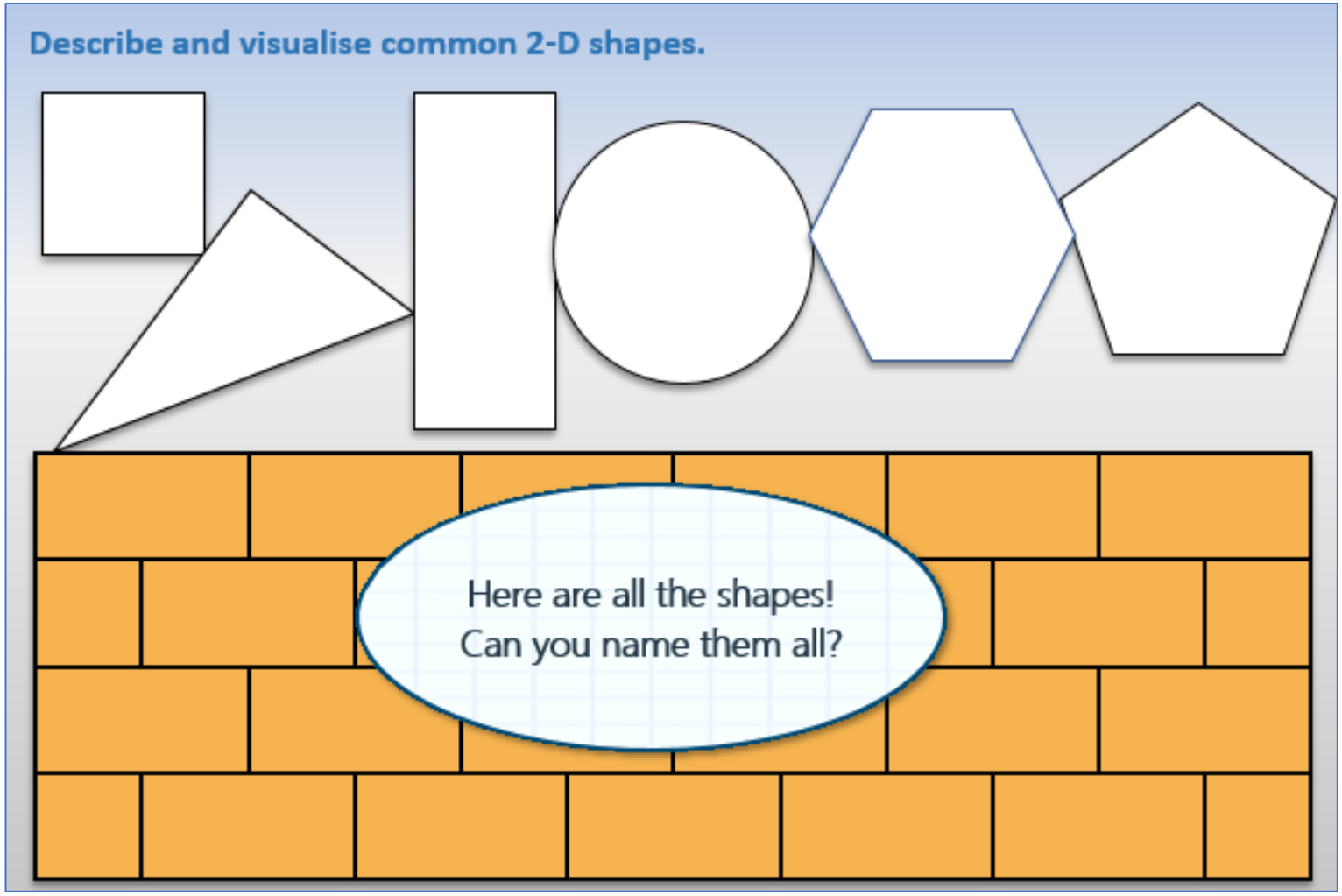
Learning Reminders



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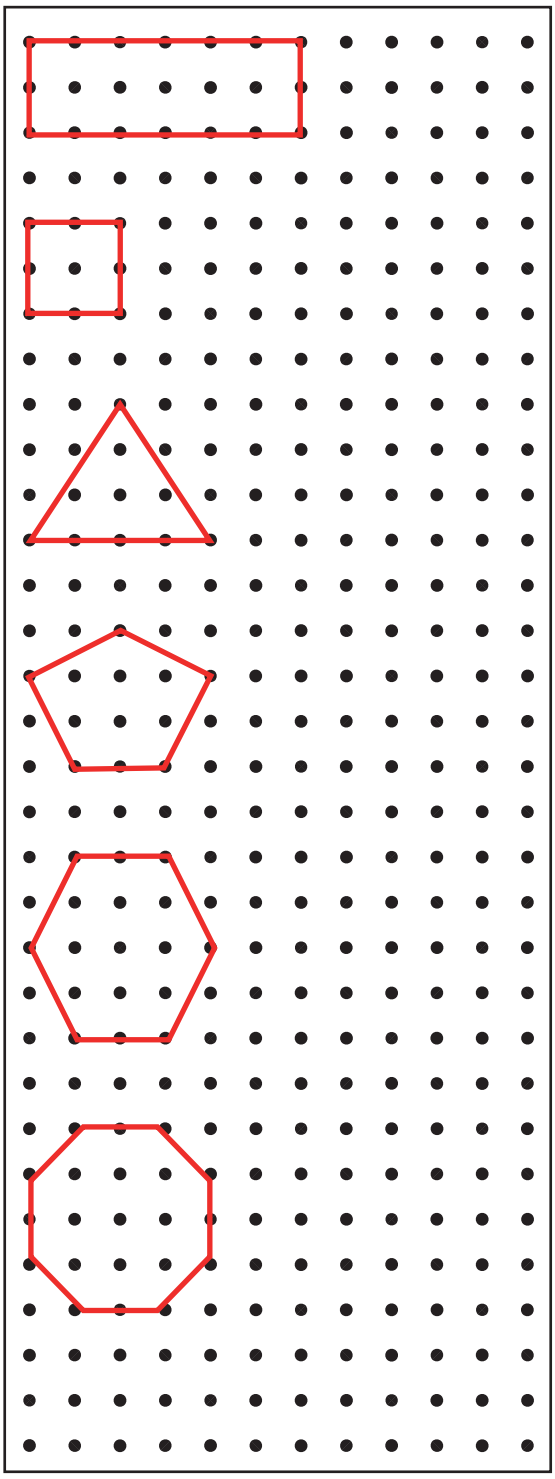
Practice Sheet Mild

Shape practice

Can you create clues for each shape? The first one has been done for you:



I have 4 sides.
I have 4 right angles.
2 of my sides are shorter than the other 2.
I have 2 lines of symmetry.

Challenge

Draw another shape and write the clues for it.

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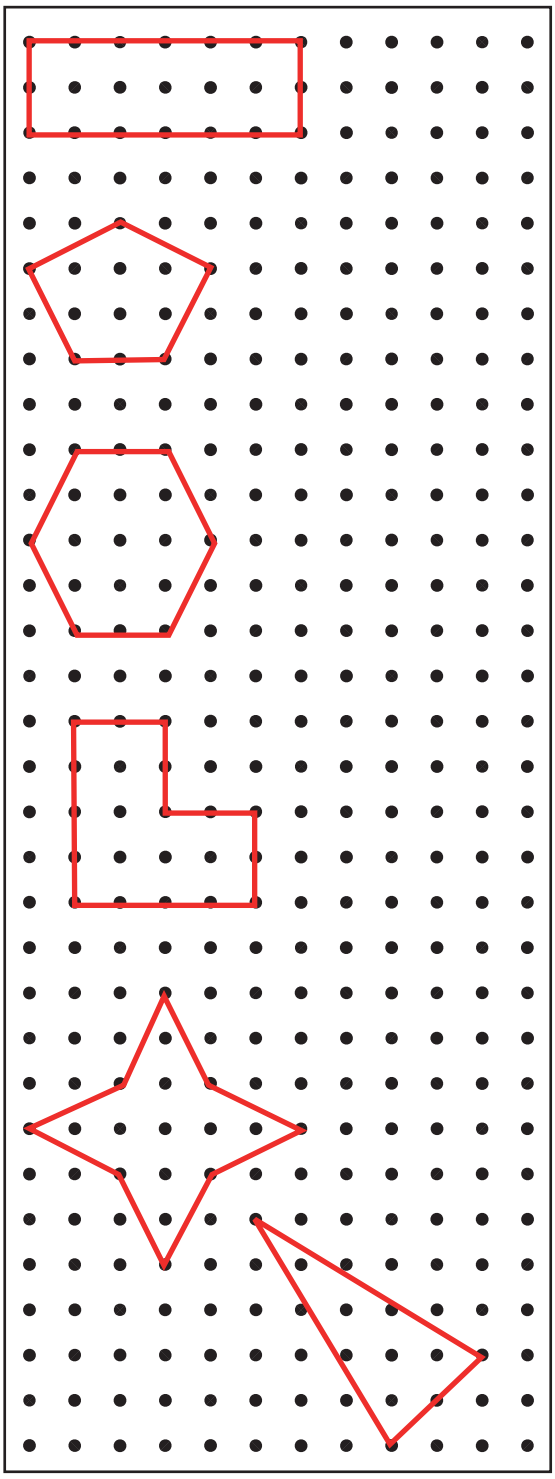
Practice Sheet Hot

Shape practice

Can you create clues for each shape? The first one has been done for you:



2 of my sides are shorter than the other 2.
I have 2 lines of symmetry.
I have 4 sides.
I have 4 right angles.

Challenge

Draw another 2 shapes and make up some clues for them.

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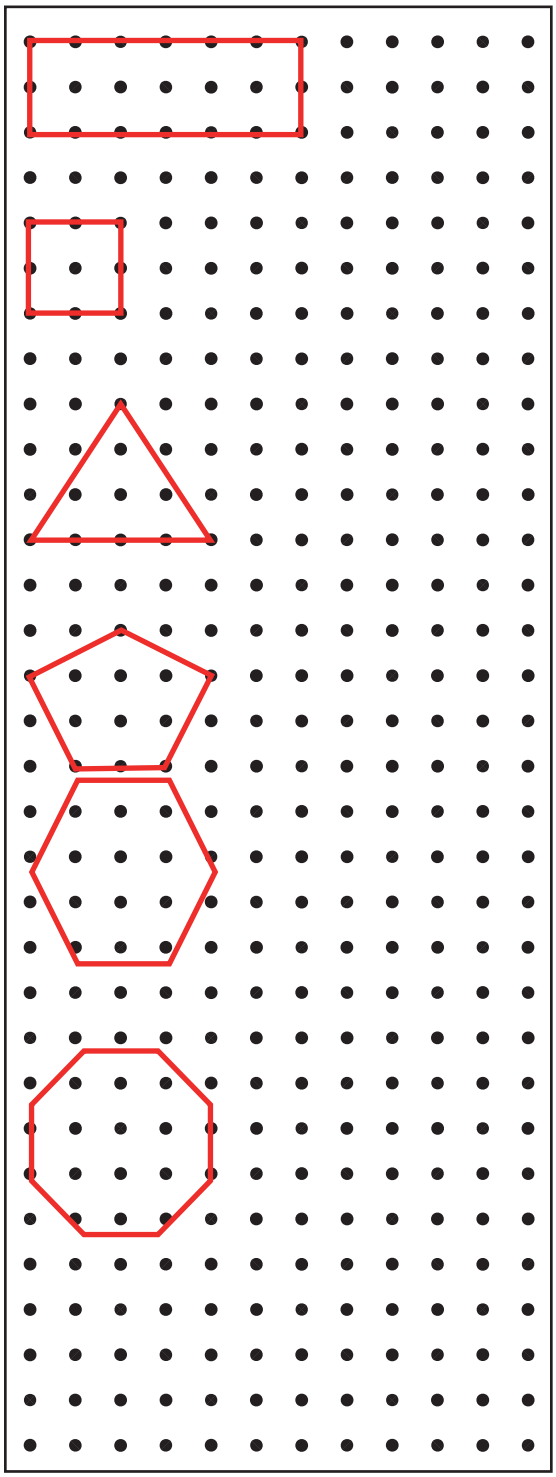
Practice Sheet Answers

Shape practice (Mild)

Children are not expected to include all of these points in their descriptions. They will also use their own words to describe each feature. Encourage them to use the appropriate vocabulary through your feedback.



I have 4 sides.
I have 4 right angles.
2 of my sides are shorter than the other 2.
I have 2 lines of symmetry.

I have 4 sides.
I have 4 right angles.
All my sides are the same engtth.
I have 4 lines of symmetry.

I have 3 sides.
I have 3 corners.
Two of my sides are the same length.
I have 1 line of symmetry.

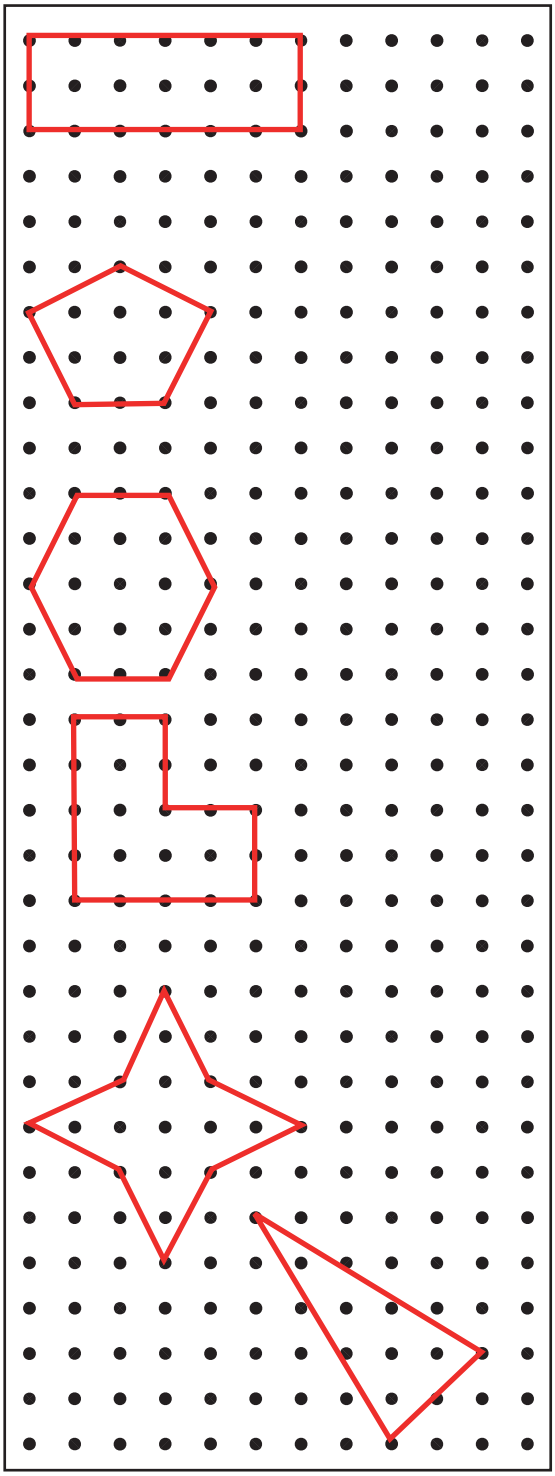
I have 5 sides.
2 pairs of sides have equal length.
I have 1 line of symmetry.

I have 6 sides.
4 sides have equal length.
The other two sides are equal.
I have 6 corners.
I have 2 lines of symmetry.

I have 8 sides.
I have 8 corners.
I have 4 lines of symmetry.
I have no right angles.

Shape practice (Hot)

Children are not expected to include all of these points in their descriptions. They will also use their own words to describe each feature. Encourage them to use the appropriate vocabulary through your feedback.



I have 4 sides.
I have 4 right angles.
2 of my sides are shorter than the other 2.
I have 2 lines of symmetry.

I have 5 sides.
2 pairs of sides have equal length.
I have 1 line of symmetry.

I have 6 sides.
4 sides have equal length.
The other two sides are equal.
I have 6 corners.
I have 2 lines of symmetry.

I have 6 sides.
I have 5 right angles.
2 of my sides are longer than the other 4.
The 4 short sides are equal.
The 2 long sides are equal.
I have 1 line of symmetry.

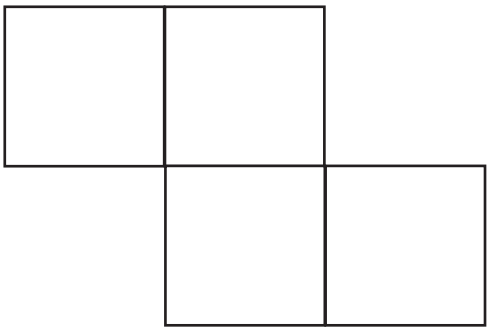
I have 8 sides.
All my sides are equal.
All my sides are the same length.
I have 4 lines of symmetry.

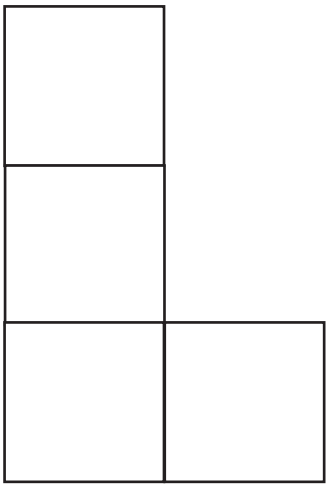
I have 3 sides.
I have 2 sides the same length.
I have 3 corners.
I have 1 line of symmetry.

A Bit Stuck?
Make the shape

What to do:

- Cut out four squares and join them together to make a new shape.
  Sides must line up, e.g. like this:





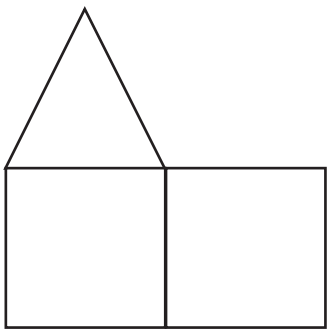
Draw around the outline of your four squares, then take them away.
What shape have you drawn?

How many sides does it have?

Repeat.

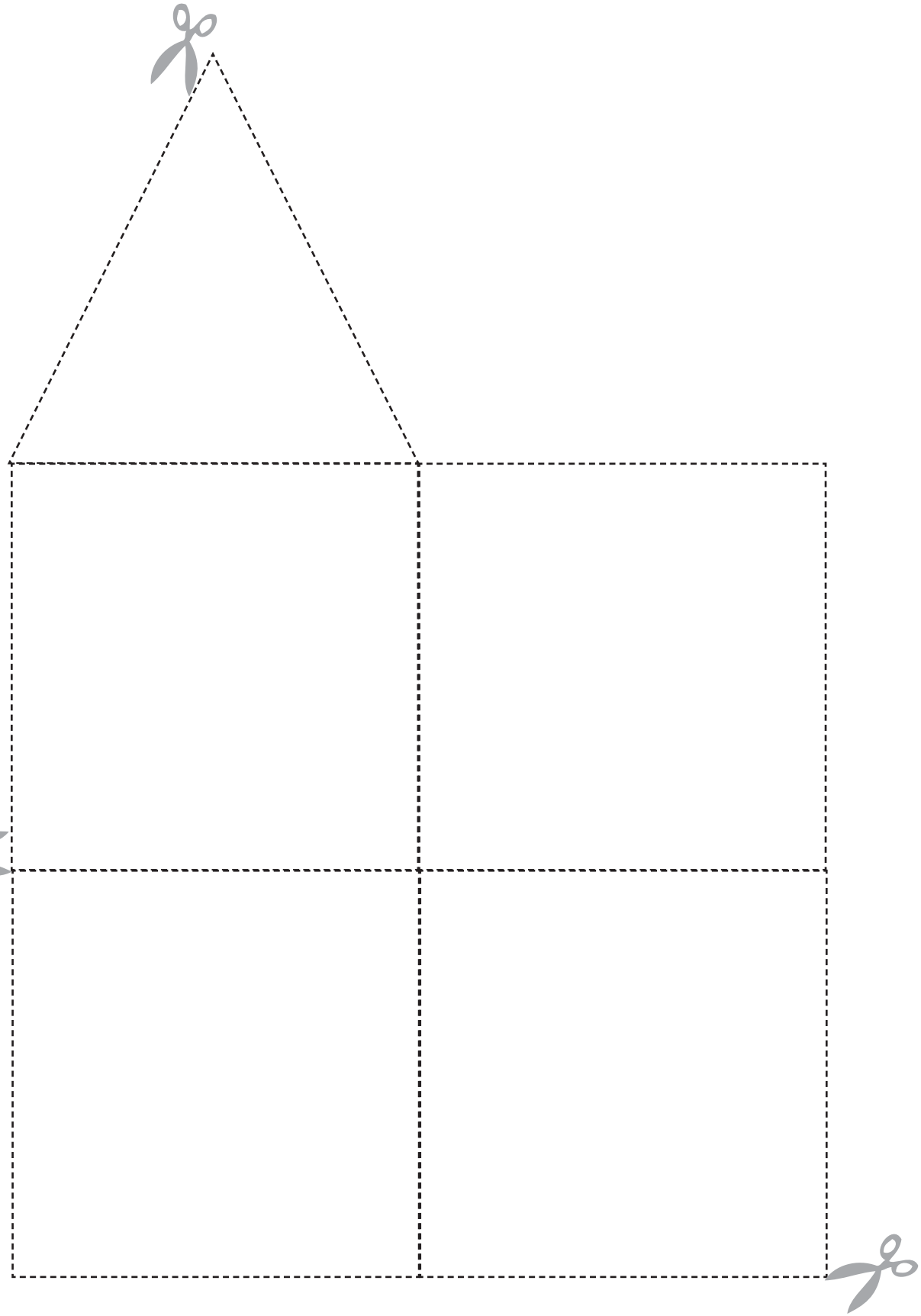
How many different shapes can you draw? Can you draw a hexagon? An octagon? A square?

Now try drawing shapes using one triangle and two squares, e.g. like this



(Tip – this shape is a hexagon! Why?)

A Bit Stuck?
Make the shape



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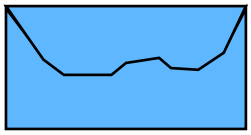
Investigation
Cut and paste

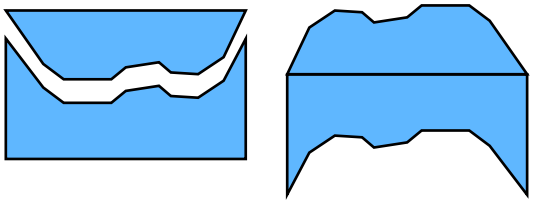
1. Start with a rectangle cut carefully out of thin card.

2. Draw a wavy line along one side.
<u>It must go corner to corner.</u>



3. Cut carefully along your wavy line.

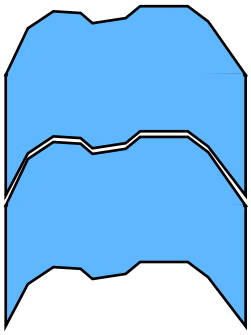
4. Stick both pieces of your rectangle onto a new bigger piece of paper so that the piece you cut out is stuck along the bottom of the rectangle to make a new shape.



5. Cut out your new shape.

6. Lay this shape on a new page and draw round it.

7. Place your shape next to the drawing and draw round it again to create a pattern of shapes next to each other.



Compare patterns. Discuss what you notice about your pattern compared to someone else's. How would you describe your pattern? How would you describe theirs?

8. Have another go but start with a different shape, perhaps a regular triangle, hexagon or a square.

Discuss what you notice. How can you describe your tessellated patterns?

