THIRD SPACE LEARNING

Ready-to-go Lesson Slides Year 2

Please note:
Geo-boards, elastic bands, dotted paper, squared paper and rulers will be needed for this lesson.

Geometry: Properties of Shapes

Lesson 4

Spr3

At Third Space Learning we provide personalised online lessons from specialist maths tutors to support the target groups in your school.

These ready-to-go slides are designed to work alongside our interventions to supplement quality first teaching and raise attainment in maths for all pupils.

To find out more about how you could use our 1-to-1 interventions year-round to boost maths progress in your school then get in touch:

020 3771 0095
hello@thirdspacelearning.com

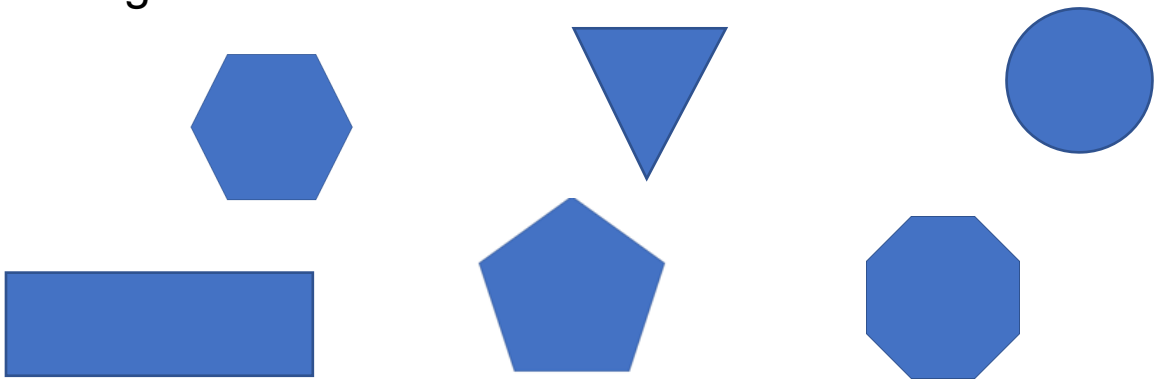
Boosting maths progress through 1-to-1 conversations…

THIRD SPACE LEARNING

To draw 2-D shapes

Starter:

Can you sort these shapes into the correct part of the sorting table?



Success Criteria:

- ❑ I can create 2D shapes using equipment
- ❑ I can draw 2D shapes on dotted or squared paper
- ❑ I can describe and compare these 2D shapes

Shapes with no vertices	Shapes with **more than 1 but fewer than 5** vertices	Shapes with **5 or more** vertices

To draw 2-D shapes

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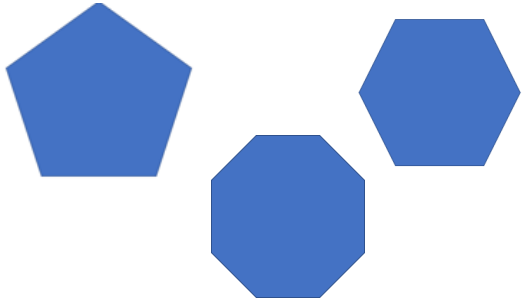
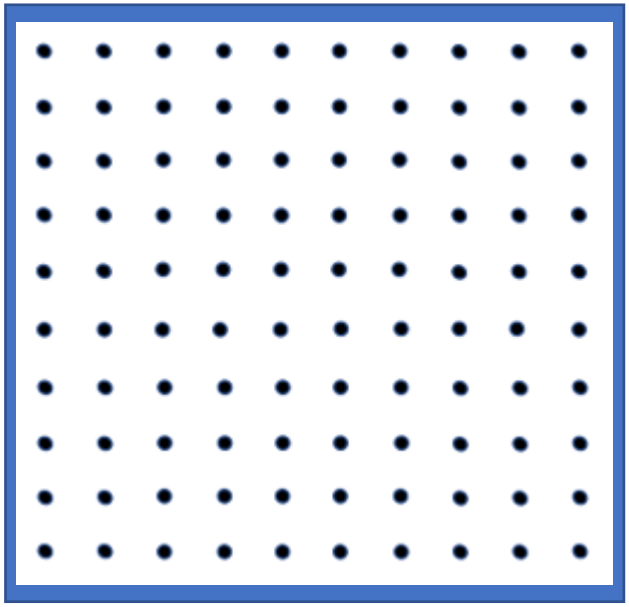
		

To draw 2-D shapes

Talking Time:

Using a geo-board and an elastic band, can you make a rectangle where the longest sides are horizontal and are **six spaces long** and the other sides are **three spaces tall**?



Reminder: horizontal means ⟷

To draw 2-D shapes

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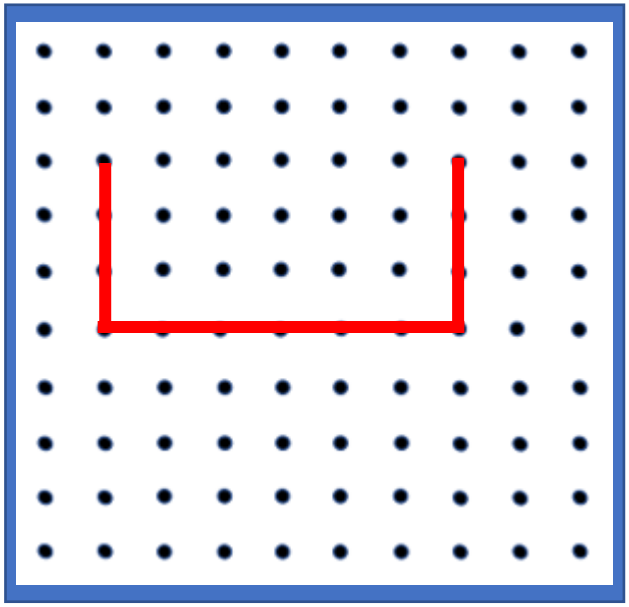
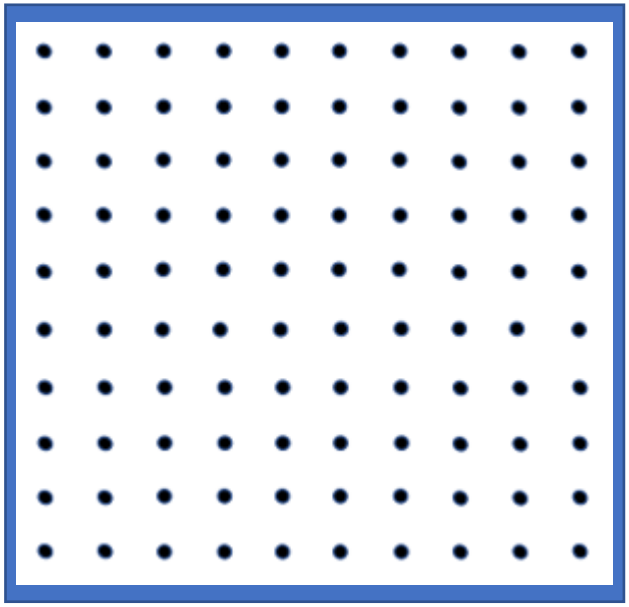


Reminder: horizontal means ⟷

To draw 2-D shapes

Talking Time:

Using a geo-board and an elastic band, can you make a rectangle where the longest sides are vertical and are **seven spaces tall** and the other sides are **four spaces long**?



Reminder: vertical means ↕

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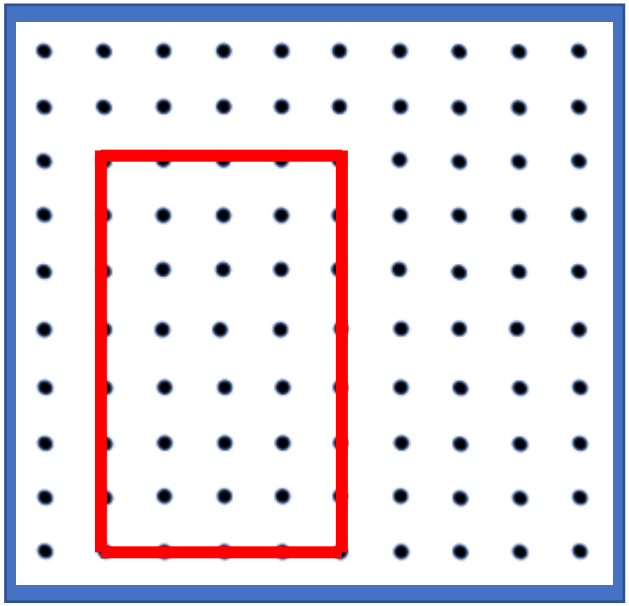
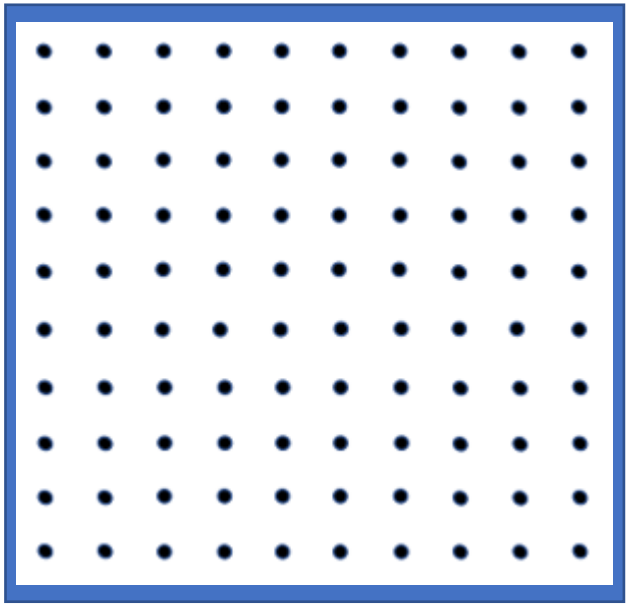


Reminder: vertical means ↕

To draw 2-D shapes

Activity 1:

Using a geo-board and an elastic band, can you make a triangle where there is a **horizontal and a vertical line,** and they are **the same length**?



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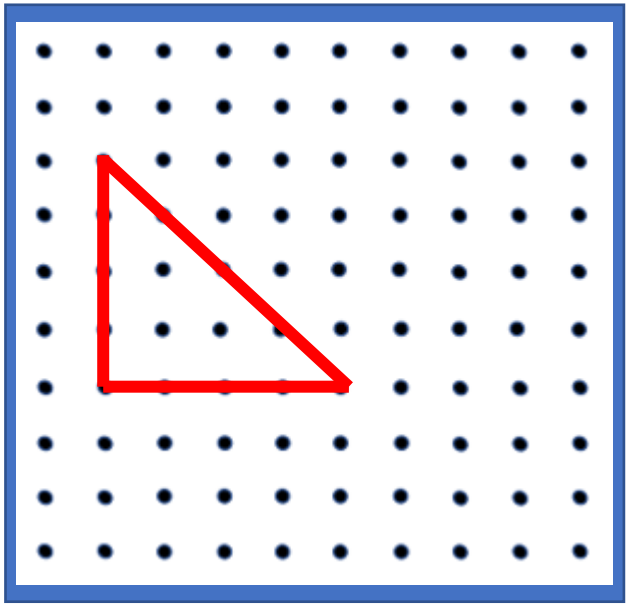


Extension:

This is one way to answer the question, but there are others.

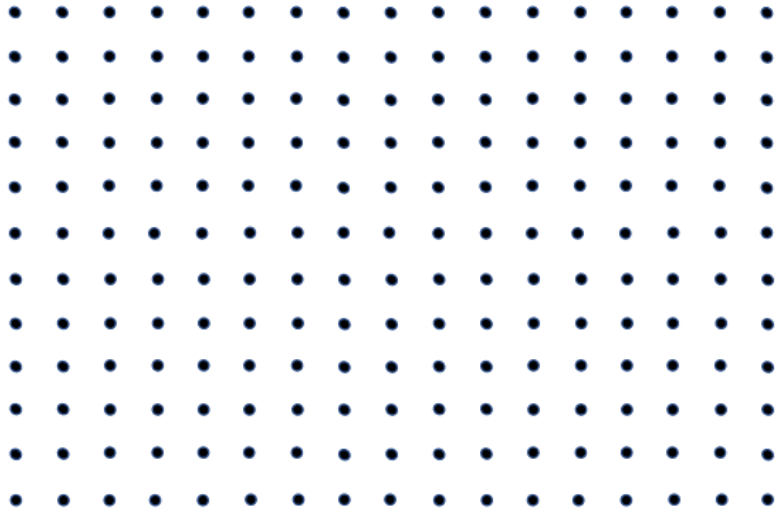
Can you find two other ways of answering the question?

You could use the same geo-board each time.

To draw 2-D shapes

Talking Time:

You will need some dotted paper, a ruler and a sharp pencil.
On your dotted paper can you draw a **square**?
You can move the paper around if that makes it easier to draw.



Start at a vertex. Use a ruler to draw a straight line. How many sides will you draw?

To draw 2-D shapes

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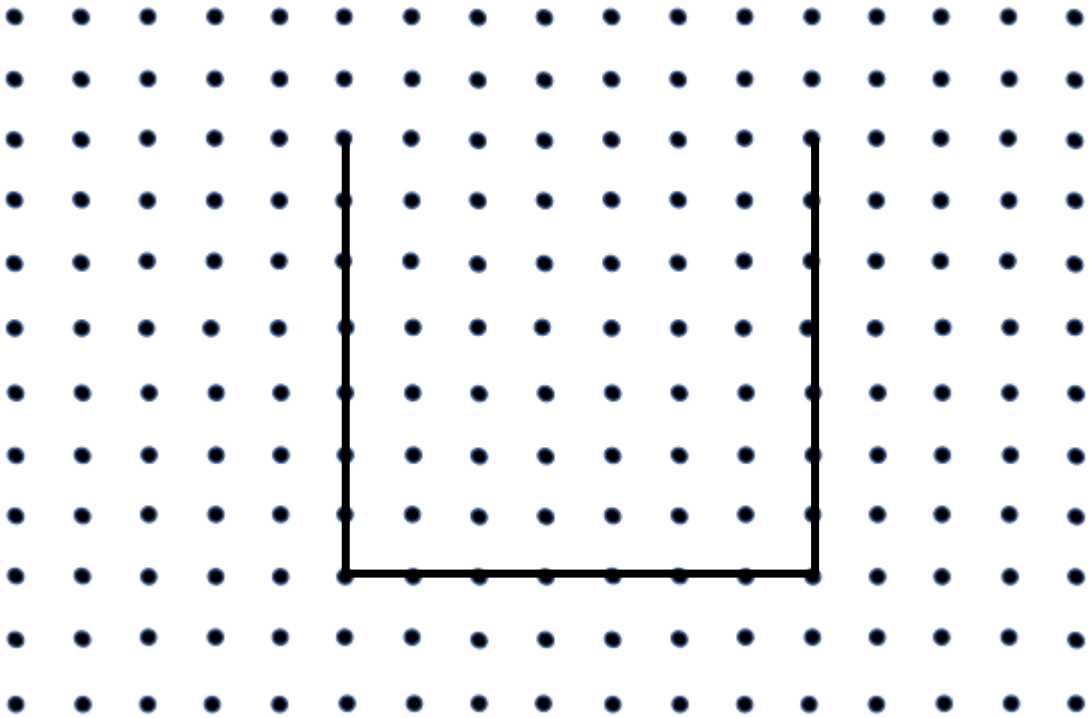


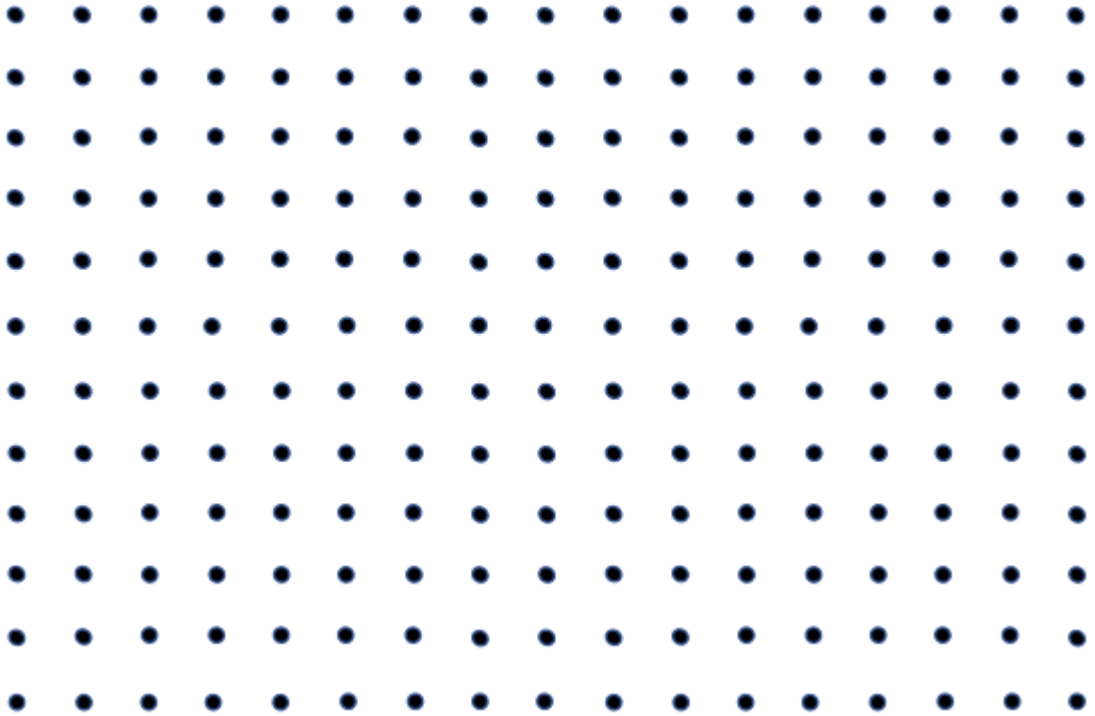
One answer could look like this.

Start at a vertex. Use a ruler to draw a straight line. How many sides will you draw?

To draw 2-D shapes

Talking Time:

On your dotted paper can you draw a **rectangle**?
Two of the sides must be **11 spaces**.



To draw 2-D shapes

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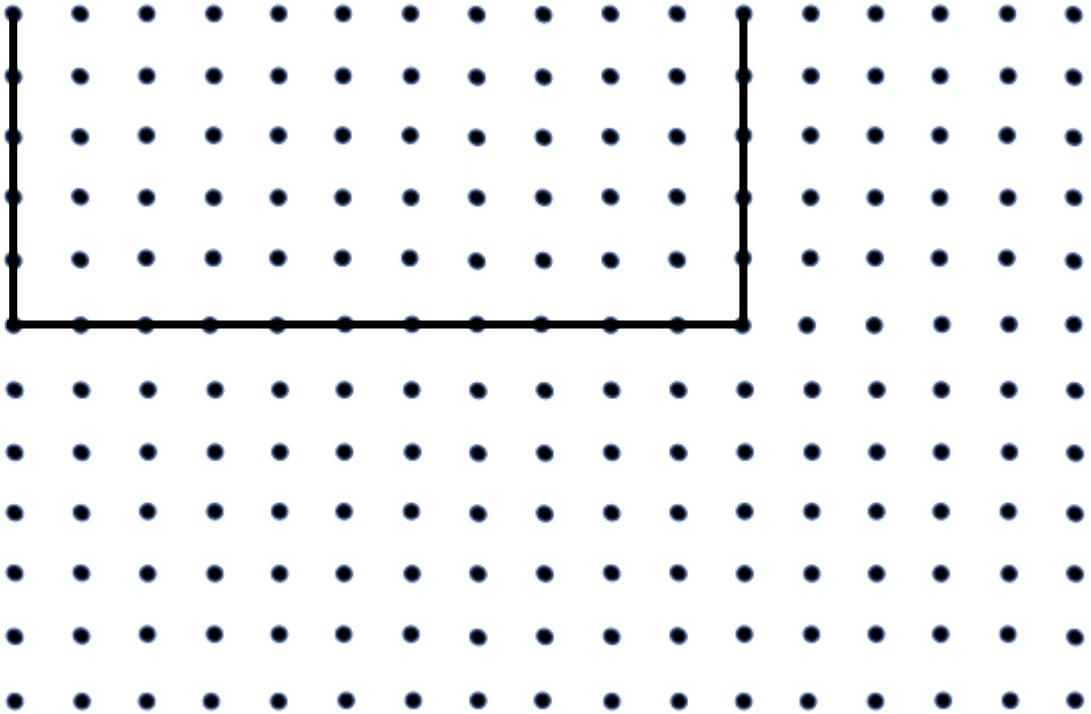


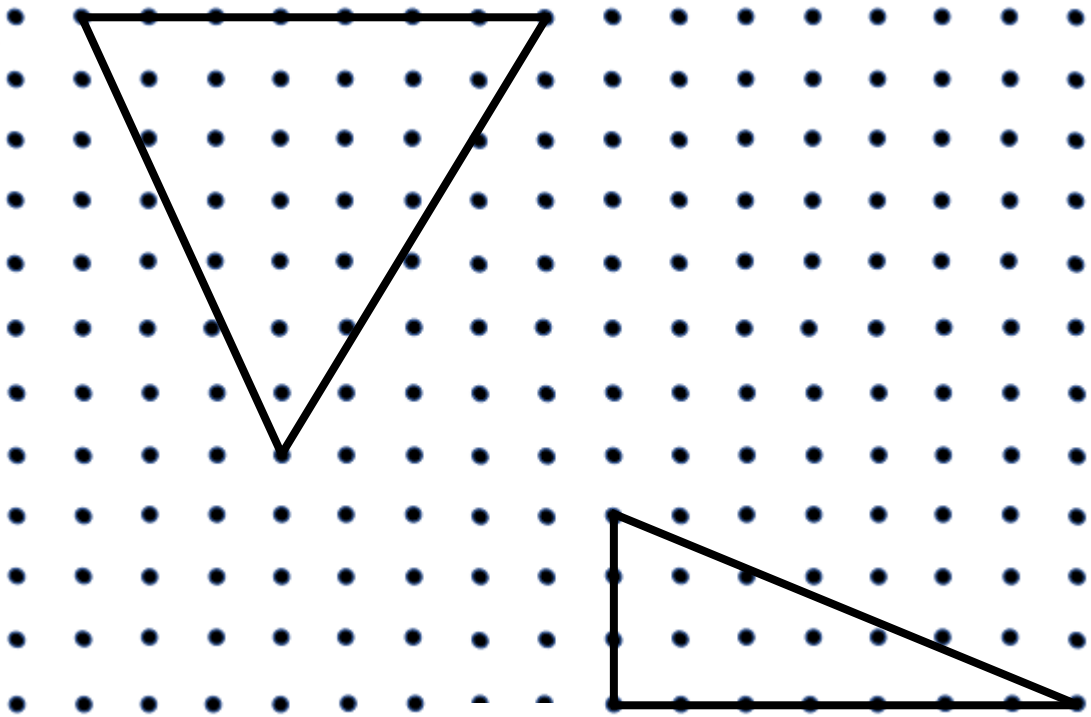
Extension:

This is one way to answer the question, but can you find another way?
Can more than two sides be 11 spaces long? Why not?

To draw 2-D shapes

Talking Time:

Violet and Jenson are asked to share some dotted paper. They are asked to draw a triangle with a side that is 7 spaces long. This is what they have drawn.



Who has drawn the triangle correctly?
Can you show how you know?

To draw 2-D shapes

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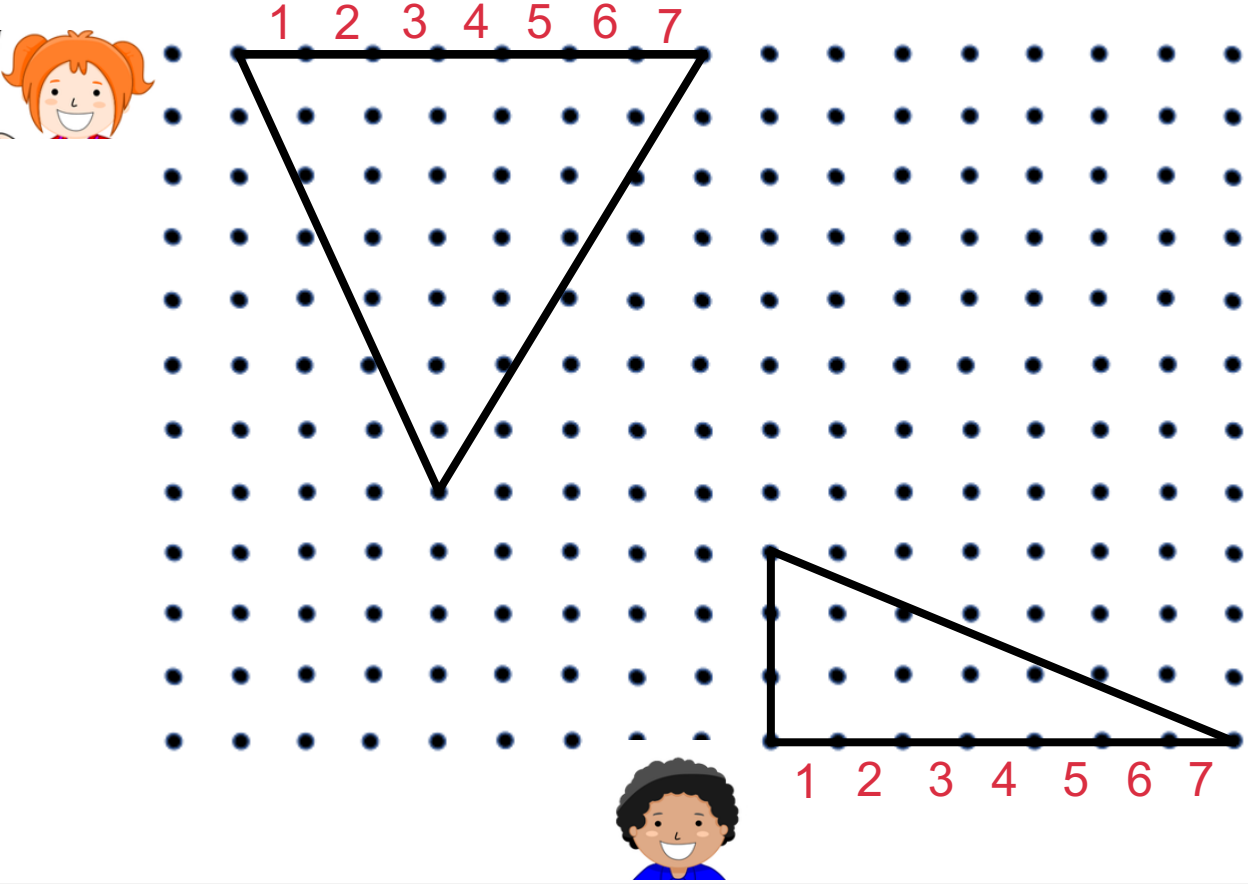


Who has drawn the triangle correctly?

Can you show how you know?

Both children have.

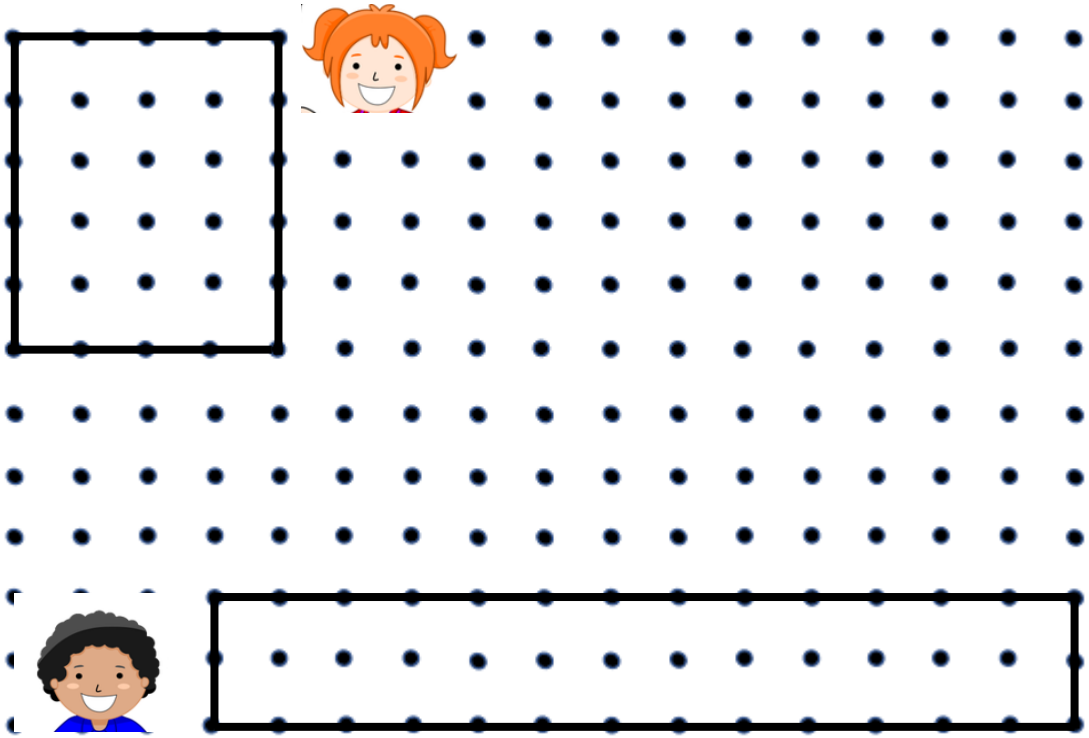
Both triangles have a side of 7 spaces.

See the labels on the triangles.

To draw 2-D shapes

Activity 2:

Violet and Jenson are asked to share some dotted paper.
They are each asked to draw a rectangle.
This is what they have drawn.
What is the same and what is different about the rectangles?



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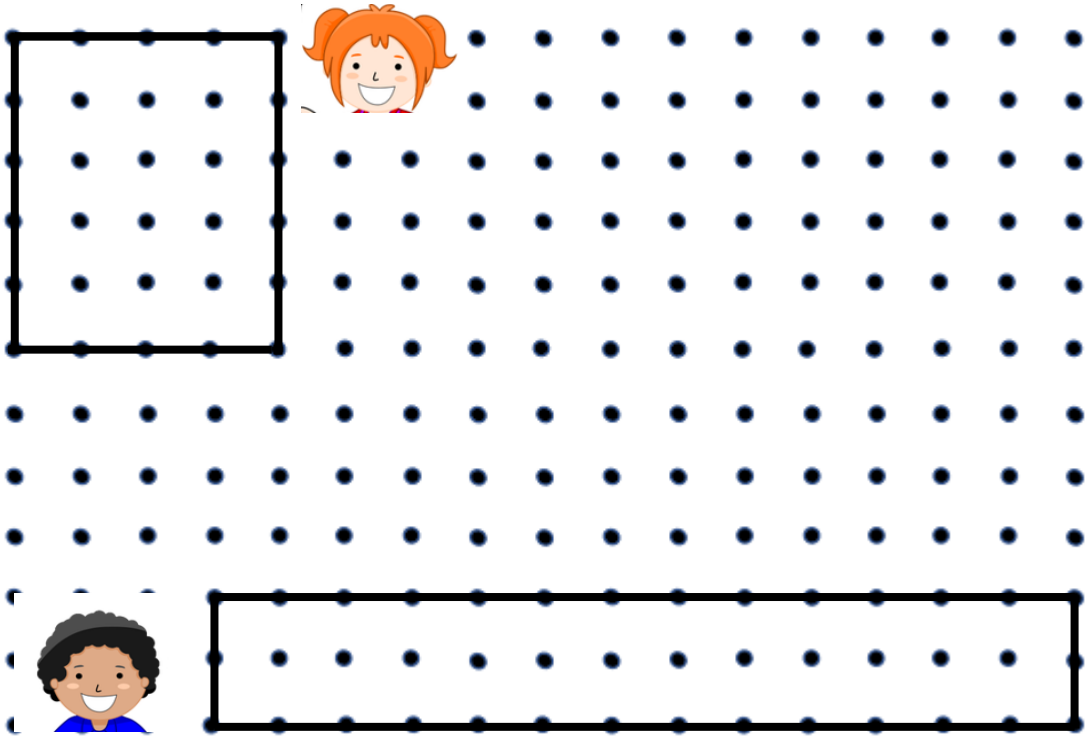


The same

- Both rectangles have 12 dots inside
- Both rectangles are on the edge of the paper

Differences

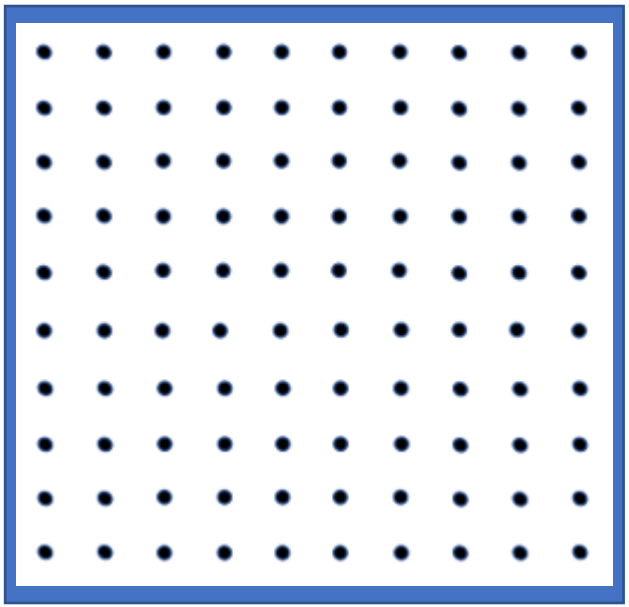
- The longest sides on Jenson's rectangle are horizontal ones
- The longest sides on Violet's are vertical ones

To draw 2-D shapes

Talking Time:

Can you make any shape on the geo-board that is **NOT** a rectangle, square or triangle?

Can you make a pentagon, a hexagon or an octagon?



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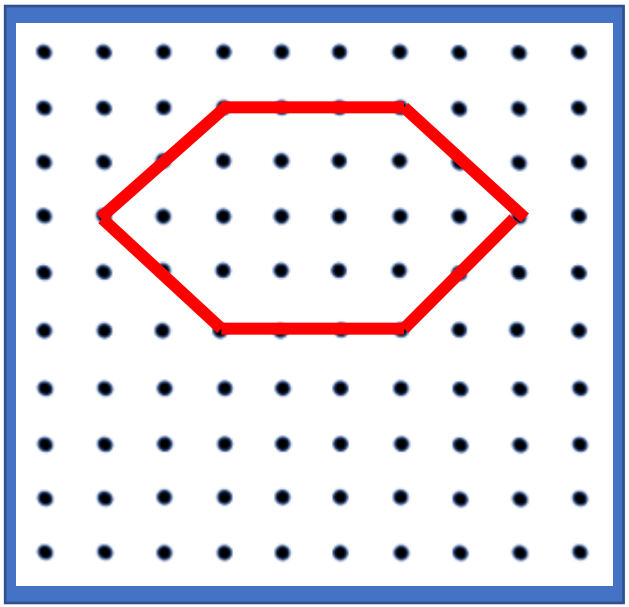
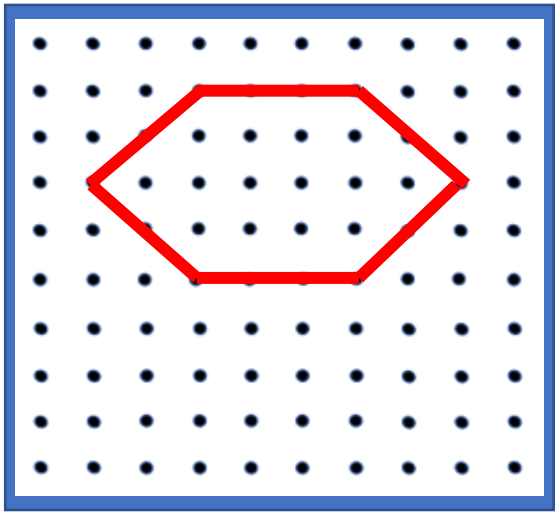


There are different possible answers.
This is just one.
It is an irregular hexagon.

To draw 2-D shapes

Talking Time:

Can you take the shape that you made and draw it on dotted paper so that they match?



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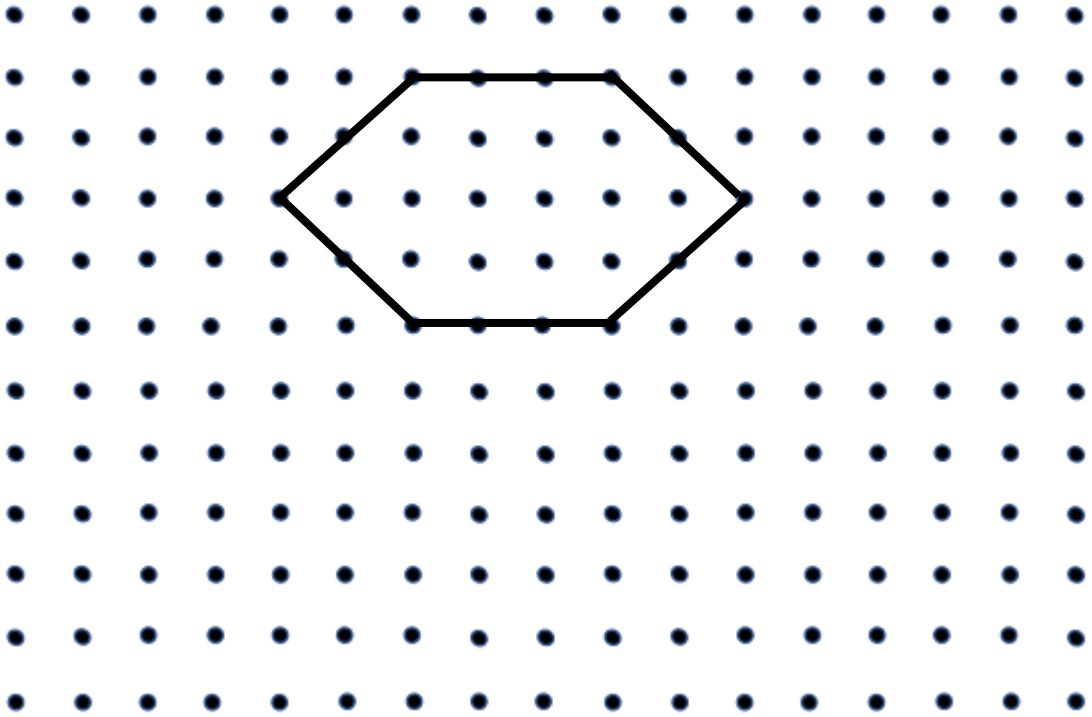
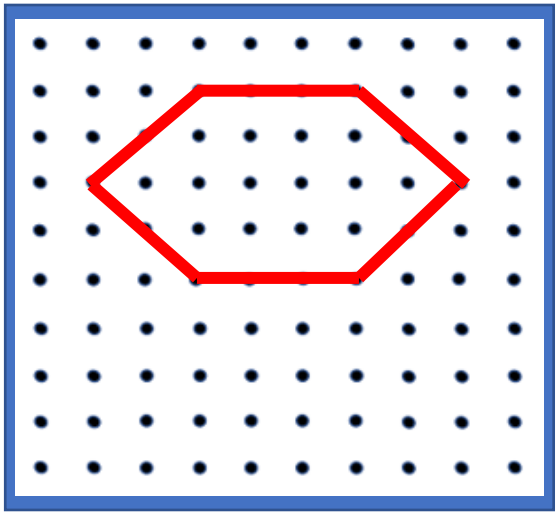
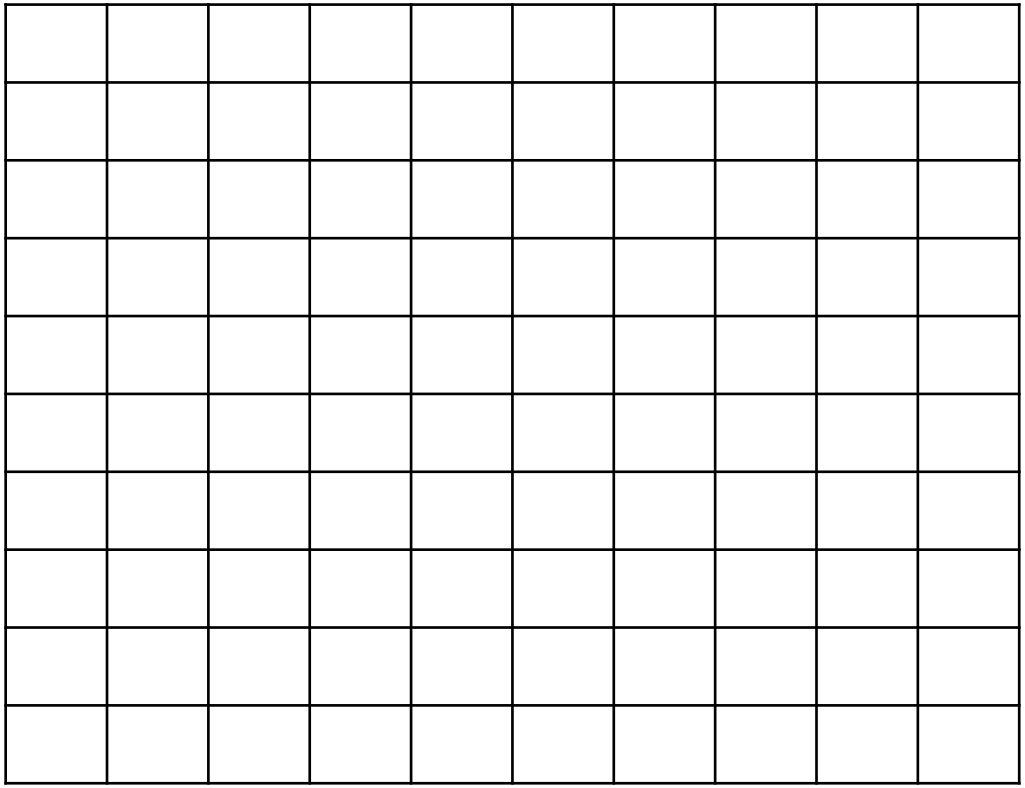


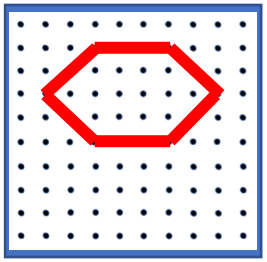


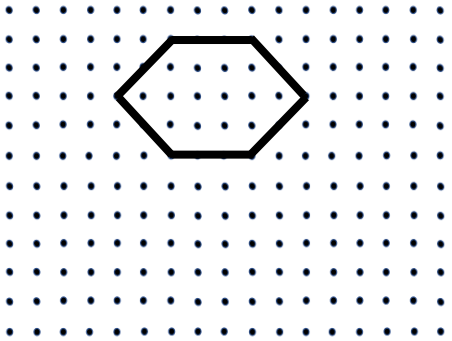
To draw 2-D shapes

Talking Time:

Can you take the shape that you made on the geo-board and drew on dotted paper and draw it again on squared paper?
Can you make them all match?







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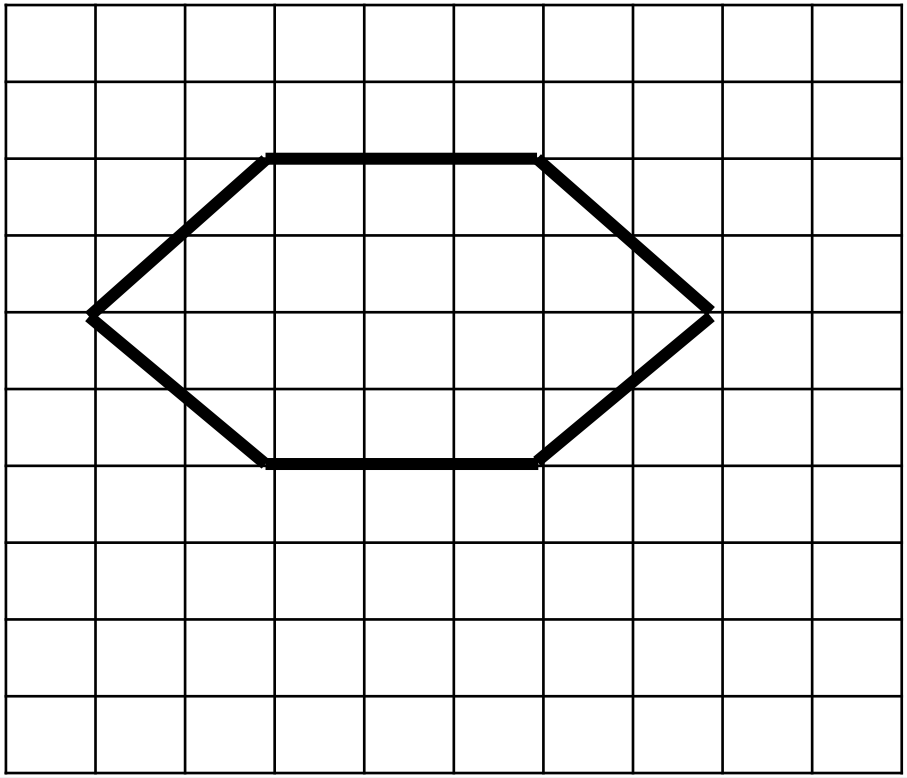
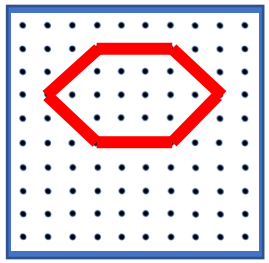
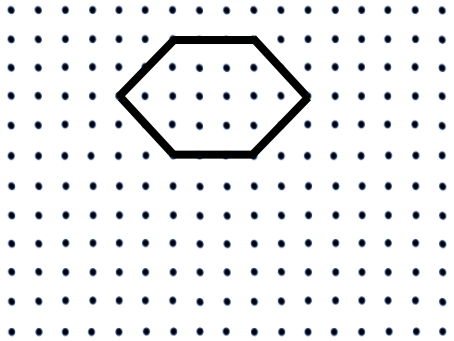






To draw 2-D shapes

Activity 3:

Using squared paper, can you follow the instructions and draw the shapes?

First of all, can you draw a large square?

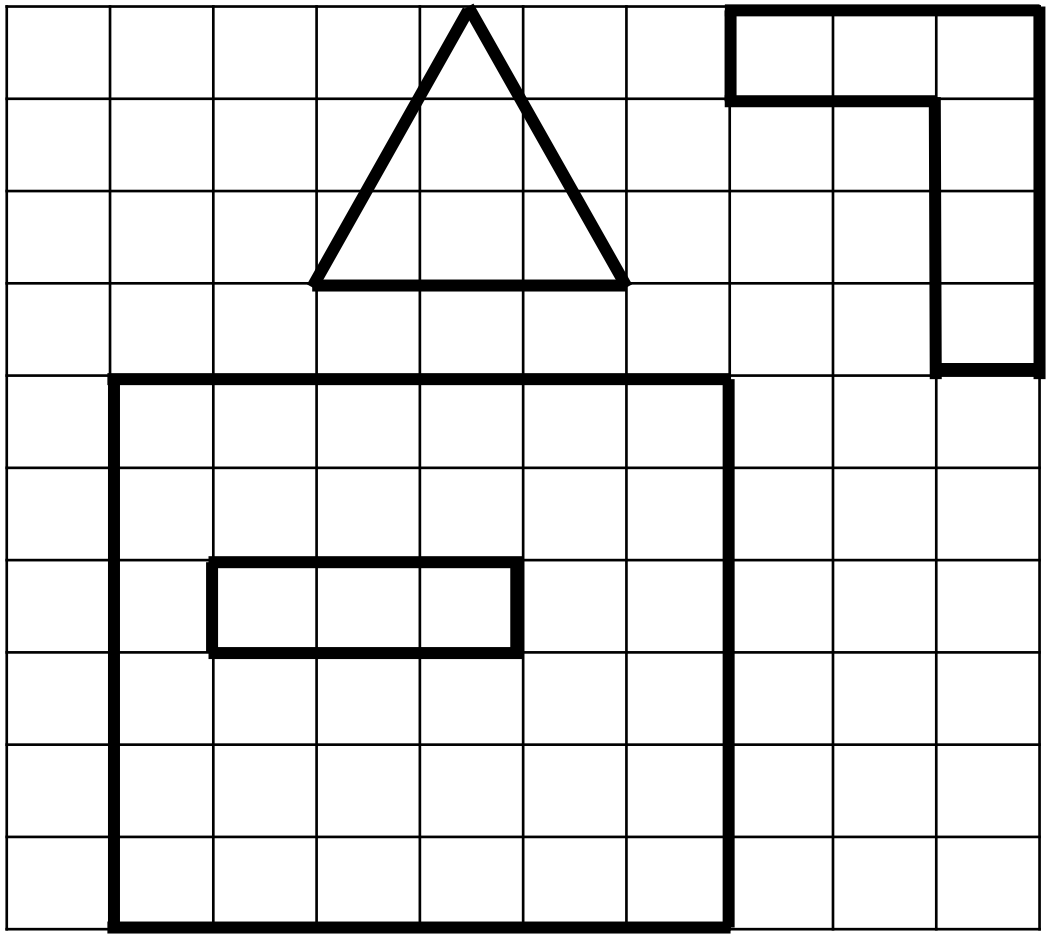
Next, draw a small rectangle inside the square.

Then, draw a triangle above the square.

Finally, draw a hexagon in a corner of the paper.

To draw 2-D shapes

Activity 3: There are different possible answers.
This is just one.



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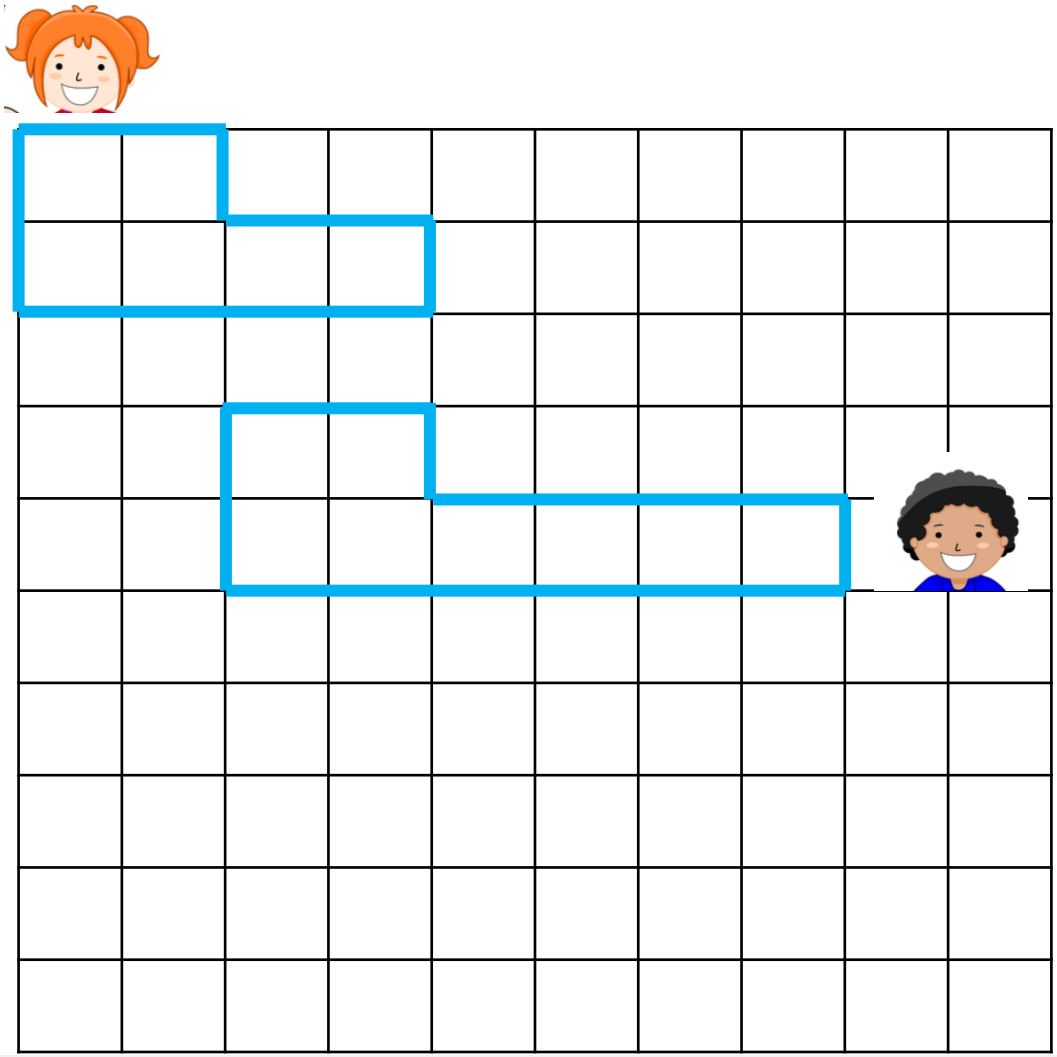
To draw 2-D shapes

Evaluation:



Violet and Jenson are asked to draw an identical shape on squared paper.
This is what they have drawn.
Are they the same? Why? Why not?

To draw 2-D shapes

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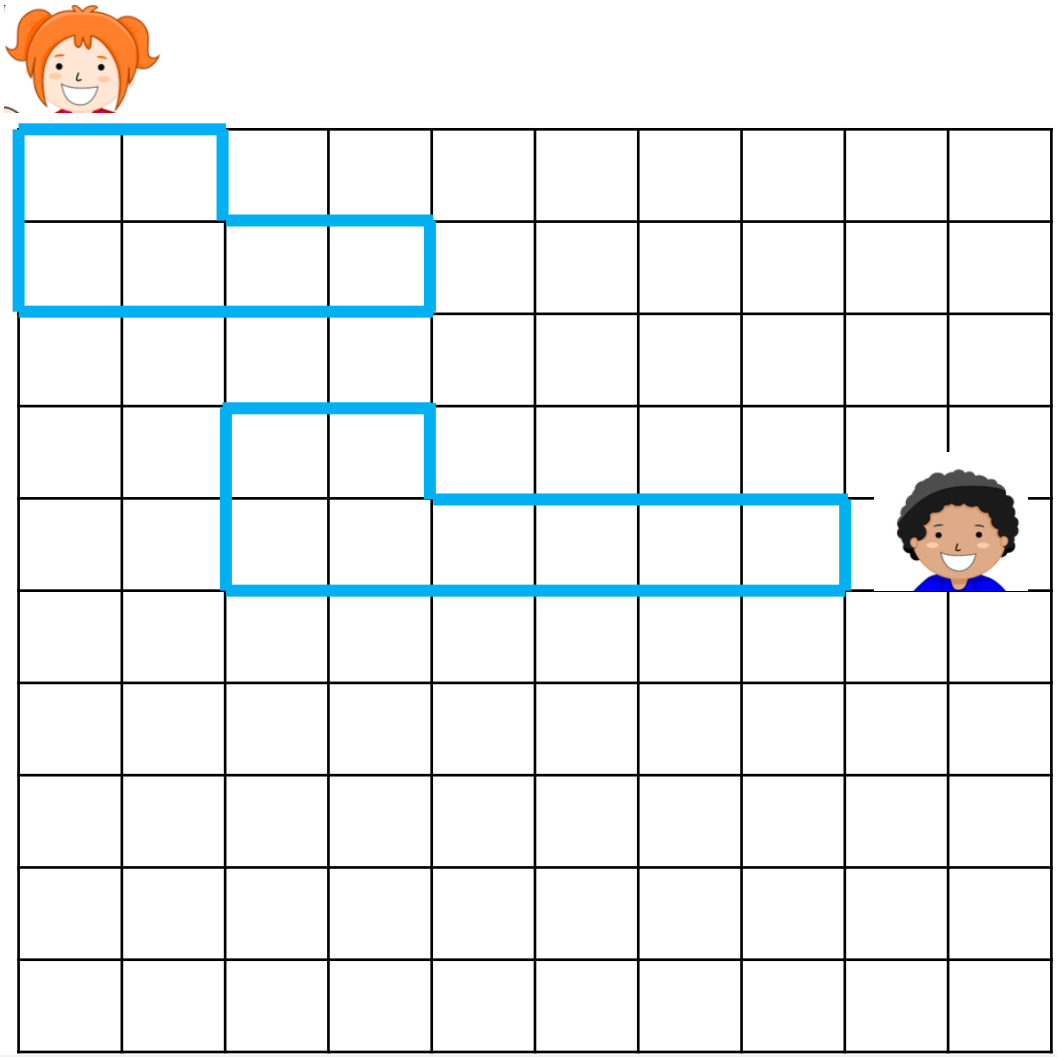

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Violet and Jenson are asked to draw an identical shape on squared paper. This is what they have drawn.
Are they the same? Why? Why not?

Both children have drawn an irregular hexagon, but they are not the same.

Jenson's shape is two squares longer than Violet's.

Do you have a group of pupils who need a boost in maths this term?

Each pupil could receive a personalised lesson every week from our specialist 1-to-1 maths tutors.

- Raise attainment
- Plug any gaps or misconceptions
- Boost confidence

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