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| Monday | It is so good to see that some of you are taking on the platinum maths starter! Some of the content on the platinum questions we have not been through yet this year, but don't let that stop you from having a good go at them!<br><br>Go to: https://corbettmathsprimary.com/5-a-day/<br>Find todays date and have a go at either: silver, gold or platinum.<br>The answers can be here:<br>https://corbettmathsprimary.com/2018/05/30/5-a-day-may-answers/<br><br>Because we didn't do the challenges last Friday, we thought it would be a good idea to do them today!<br><br>https://www.bbc.co.uk/bitesize/articles/zdkqmfr<br>Remember to have a go at challenges 3 – 6.<br>The answers are underneath all of the questions on the website. |
| Tuesday | Go to: https://corbettmathsprimary.com/5-a-day/<br>Find todays date and have a go at either: silver, gold or platinum.<br>The answers can be here:<br>https://corbettmathsprimary.com/2018/05/30/5-a-day-may-answers/<br><br>Today, you are going to be doing some mathematical art. Fill a rectangular grid with straight lines, going in different directions. Once you have done that, colour in the spaces in between each of the lines. You can get creative, use chalks, paints, collage; you might even be able to create something using your ICT skill!<br>Here are some examples:<br><br>Once you have created your colourful square, label all the shapes that you have made.<br><br>Challenge: Can you create an art piece using **only** different types of triangle or only different types of quadrilaterals? |

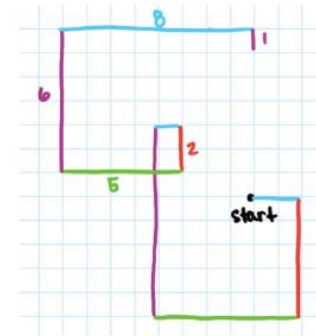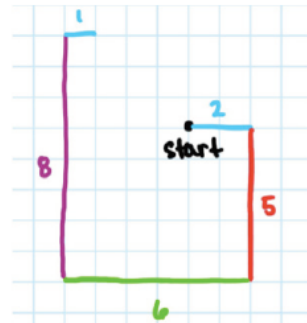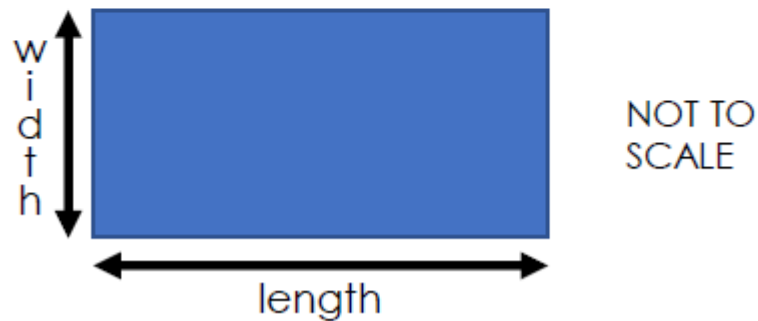| Wednesday | Go to: https://corbettmathsprimary.com/5-a-day/ <br> Find todays date and have a go at either: silver, gold or platinum. <br> The answers can be here: <br> https://corbettmathsprimary.com/2018/05/30/5-a-day-may-answers/ <br><br> For today's activity, you will need: a ruler, 4 different coloured pen/pencils, a piece of paper (squared paper would be great – so you can use the squares – but plain paper and a ruler will be fine!) <br><br> You are going to represent numbers visually, creating something that is called a spirolateral. <br> Follow the instructions below to find out how to make a spirolateral. <br><br> **Step 1**: Start with any list of numbers. For example: <br> 2, 5, 6, 8, 1 <br><br> **Step 2**: Pick a color for each direction. <br><br> **Step 3**: Spiral through your list. <br><br> **Step 4**: Spiral through your list again. <br><br> **Step 5**: Continue until you return to the start or you are convinced that your spirolateral will never return to the start. <br><br> I would suggest picking between 3 and 8 numbers to cycle through. <br> Once you are convinced that your spirolateral does/does not make it back to the start, pick another set of numbers to see if you can make it meet you start point again! <br> <mark>Challenge: print out one of the different shape grids from below (hexagons or triangles), investigate to see how you might make your spirolateral work on different shaped paper!</mark> |

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| Thursday | Go to: https://corbettmathsprimary.com/5-a-day/<br>Find todays date and have a go at either: silver, gold or platinum.<br>The answers can be here:<br>https://corbettmathsprimary.com/2018/05/30/5-a-day-may-answers/<br>Shape origami.<br>For today's activity, all you are going to need is piece (ideally a few pieces) of plain paper, scrap paper is fine, so long as it starts out as a rectangle.<br>I would like you to think about:<br>    1. How would you fold this sheet of paper to make a smaller Rectangle?<br>    2. How would you fold this sheet of paper to make a triangle?<br>    3. How would you fold this sheet of paper to make a square?<br>Find as many different ways in which you can fold your piece of paper to make these shapes.<br>You might want to find a partner to convince yourself that you have found all the ways of folding your paper to make these shapes.<br>Challenge:<br>   -  Can you fold the paper to make a circle?<br>   -  What shapes can you make by folding the paper<br>   -  Fold the paper to make a combination of two shapes e.g. a triangle and a rectangle. |
| Friday | Go to: https://corbettmathsprimary.com/5-a-day/<br>Find todays date and have a go at either: silver, gold or platinum.<br>The answers can be here:<br>https://corbettmathsprimary.com/2018/05/30/5-a-day-may-answers/<br>I see maths activity based on shape.<br><br>Today's maths involves taking on a challenge that requires your area knowledge.<br>If you need a quick recap on this, watch this video:<br>Area: https://www.bbc.co.uk/bitesize/topics/zjbg87h/articles/zwqt6fr |

The length of the rectangle is double its width.

The area of the rectangle, rounded to the nearest 100cm², is 200cm².

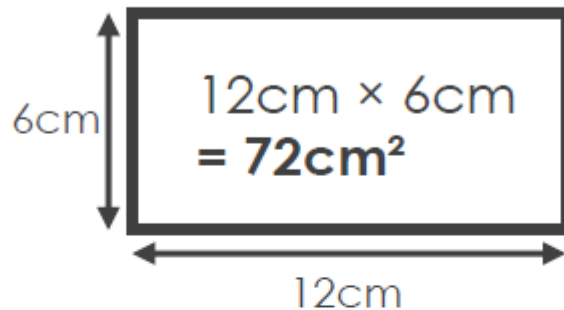The length and width of the rectangle are whole numbers (in cm).



NOT TO SCALE

**What is the smallest that the length of rectangle can be?**

Scroll down for some hints and extension challenges.

**Example:**

12cm is double 6cm.

6cm | 12cm × 6cm = **72cm²**

12cm

72cm² does not round to 200cm² so this example **does not** work.

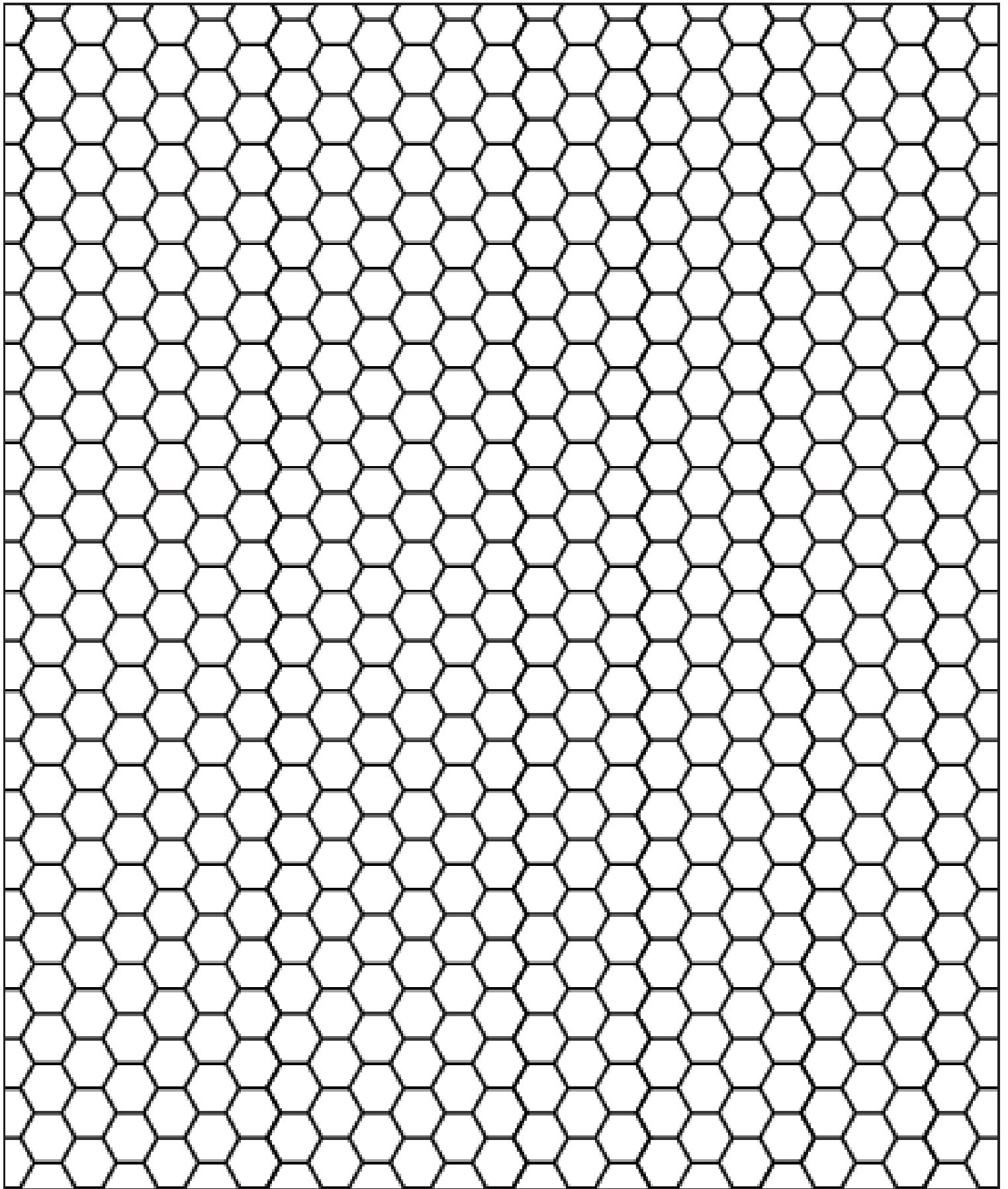0    100    200    300

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**True or false?**    ✓ ✗

**Statement 1:** 'Doubling the length of the sides of a rectangle doubles the **perimeter** of the rectangle.'
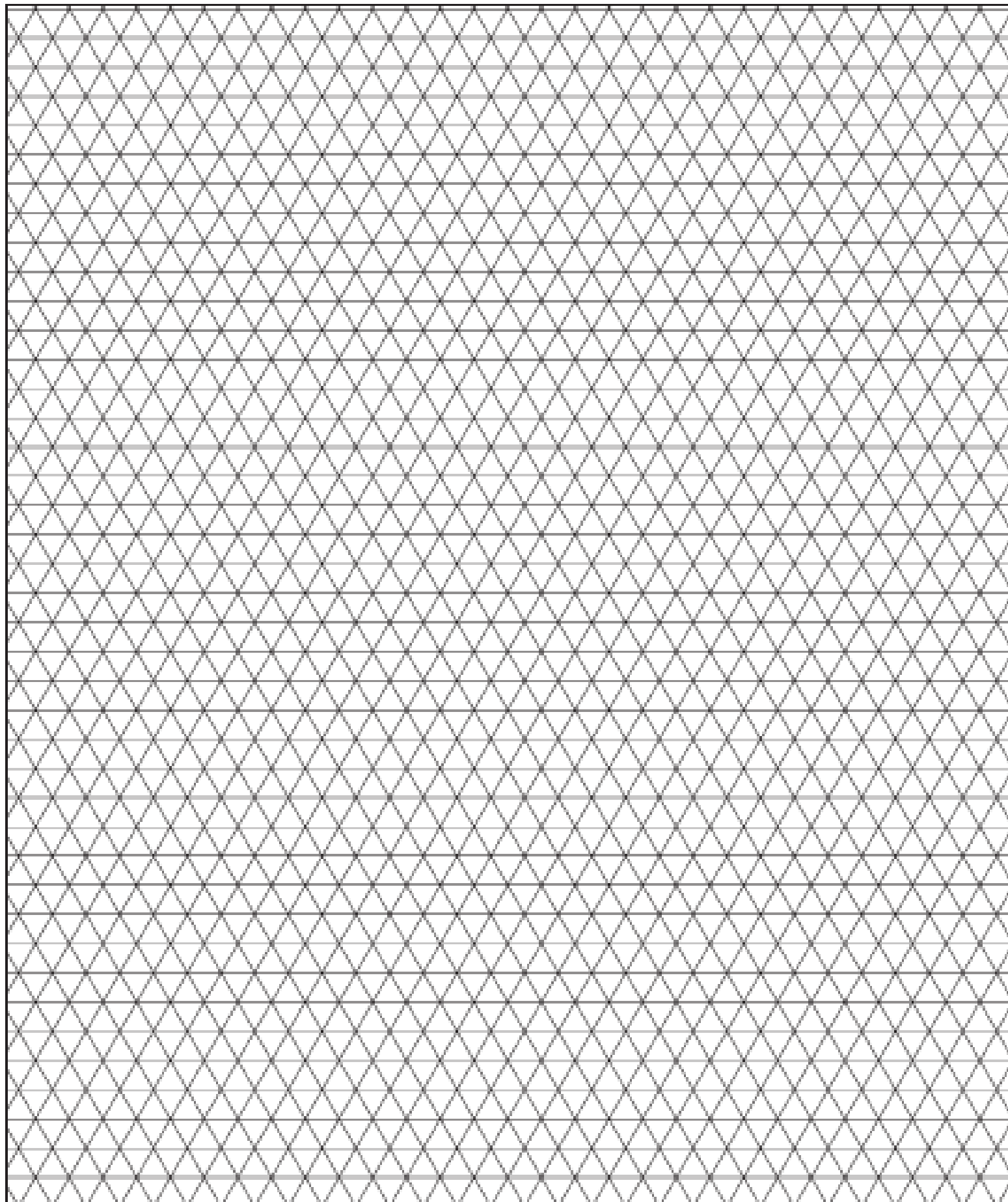
**Statement 2:** 'Doubling the length of the sides of a square doubles the **area** of the square.'

**E**   Draw a rectangle. Label the length and width.

**X**   Draw a new rectangle with half the length and double the width.

**T**

**E**   **Agree or disagree:**

**N**   *'The area of these two rectangles is the same.'*

**D**   Describe what you notice.

Scroll to the bottom of this document to find the answers:

Grids for Wednesday spirolaterals challenge:

**Task 44: Rectangle length:** Length = 18cm

Explain: Statement 1 is true. Statement 2 is false: doubling the length of the sides of a square quadruple it's area.

Extend: notice that, for rectangles with the same perimeter, as a rectangle gets thinner the area decreases and vice versa.