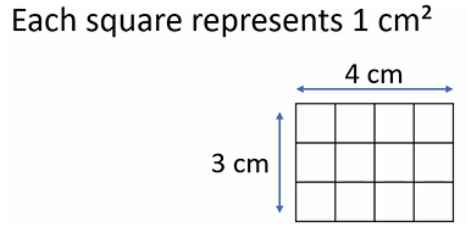
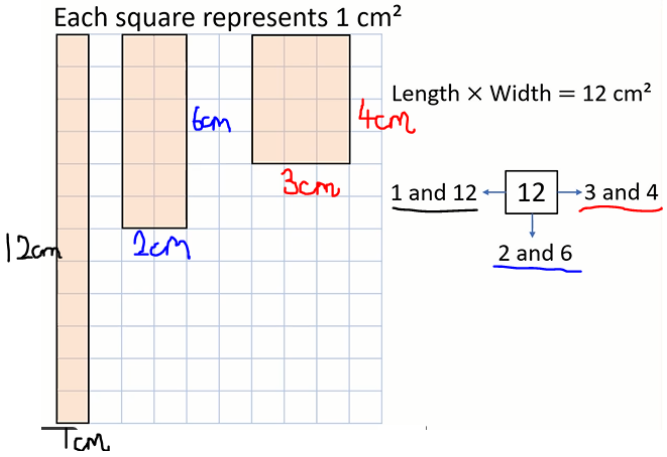
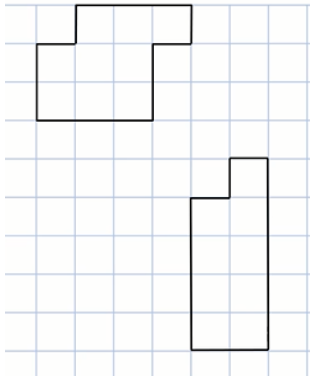
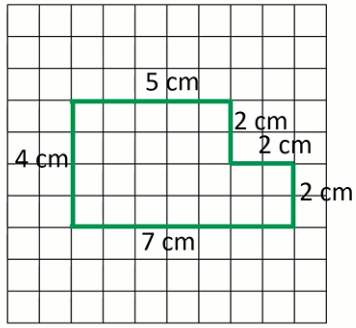
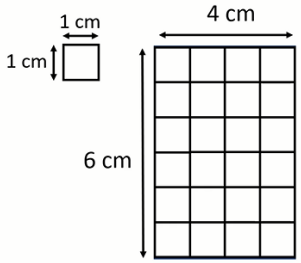
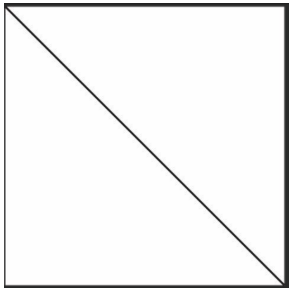
Weekly Maths Planning **Unit: Measurement - area, perimeter and volume** **Y5/6** **w/b: 1.3.21**

	Learning objective	Main teaching	Activity	Resources	Vocabulary
Monday	L.O. To investigate shapes with the same area	**Area:** the space occupied by a flat shape or the surface of an object. Area is measured in square units. **Perimeter:** the distance around the shape. E.G.  The length of the rectangle is 3cm. The width of the rectangle is 4cm. The area of the rectangle is 3cm x 4cm = 12cm² Below, you can see that different shapes can have the same area. The area of all these rectangles is 12cm².  https://vimeo.com/506226806	Can you draw 3 rectilinear shape (all sides meet at right-angles and which can be separated into rectangles) that have an area of 9cm²? Here are two examples. Each square = 1cm²  **<u>Y6</u>**: Scroll down to the questions titled: Year 6 Monday Activity. Copy and complete the questions. There are further challenges for you to try if you finish quickly.	Pencil Squared exercise book	Area Perimeter Shape Rectangle Rectilinear Right-angle Length Width

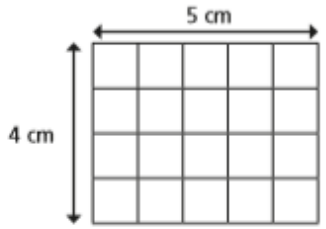
Tuesday	LO To calculate area and perimeter of rectilinear shapes	**Perimeter**: the distance around the shape.  5 + 2 + 2 + 2 + 7 + 4 = 22 cm **Area:** the space occupied by a flat shape or the surface of an object. Area is measured in square units.  What is the area of the rectangle? The area of the rectangle is 24 cm^2 Watch https://vimeo.com/506227199 (if you are confident with the above, you may wish to skip to 2minutes 50seconds) and complete activities along the way.	**Y6**: Complete page 52 in your CGP Targeted Question Book Now complete https://resources.whiterosemaths.com/wp-content/uploads/2020/01/Y6-Spring-Block-5-WO2-Area-and-perimeter-2019.pdf Answers: https://resources.whiterosemaths.com/wp-content/uploads/2020/01/Y6-Spring-Block-5-ANS2-Area-and-perimeter-2019.pdf	video link Pencil Squared exercise book Worksheets Targeted Question Book Ruler	Area Perimeter Shape Rectangle Rectilinear Right-angle Length Width Rectilinear

Wednesday	LO To calculate the area of a right angled triangle SP - LOOM	**Using just a rectangular piece of paper, create two identical triangles. You can only use scissors to cut one line.** Did you do it by cutting to opposite angles like below?  How could you work out the area of your triangles? We know that both of the triangles together have the same area as the original rectangle. Therefore we can work out the area of the rectangle and divide it by 2. <u>Watch the following lessons and complete the activities you are asked to do:</u> Video 1: https://vimeo.com/507596408 Video 2: https://vimeo.com/507597205	**<u>Y6</u>**: Complete pg 50 of your CGP Targeted Question Book. THEN have a go at this sheet https://resources.whiterosemaths.com/wp-content/uploads/2020/01/Y6-Spring-Block-5-WO3-Area-of-a-triangle-1-2019.pdf Answers: https://resources.whiterosemaths.com/wp-content/uploads/2020/01/Y6-Spring-Block-5-ANS3-Area-of-a-triangle-1-2019.pdf	Paper Scissors Ruler Vimeo Worksheets Targeted Question Books Maths Book	Angle Line Divide Formula Calculate Area Perimeter Triangle Right-angled Isosceles Scalene Equilateral
Thursday	World Book Day - see separate plan				
Friday	World Book Day - see separate plan				

Year 6 Monday Activity

1.

Use the diagram to help you complete the sentences.



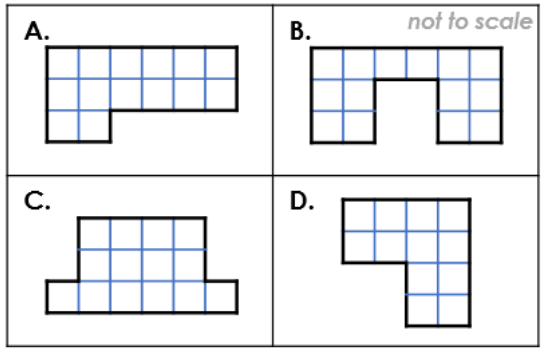
The length of the rectangle is ☐ cm.

The width of the rectangle is ☐ cm.

The total number of squares in the rectangle is ☐

The area of the rectangle is ☐ cm^2

Copy all the shapes below with an area of 14cm^2:

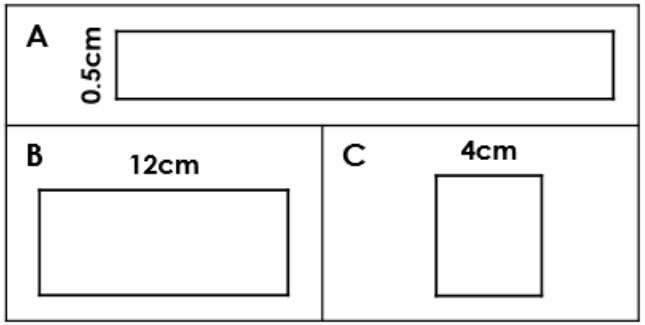


D

☐ = 1cm^2

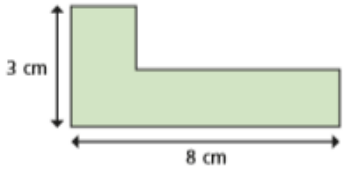
VF

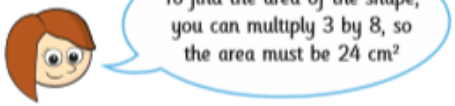
3. All of these rectangles have an area of 36cm^2. Complete the missing lengths.



4.

Rosie is finding the area of this shape.

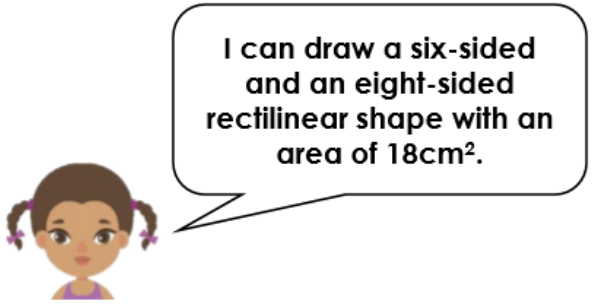




Do you agree with Rosie? _____

Explain your answer.

5.



Draw two shapes to prove that Suzi is correct. Your shapes must include some half squares.

CHALLENGE: https://nrich.maths.org/1045/index

FURTHER CHALLENGE: https://nrich.maths.org/6398

Y6 Monday Activity Answers

<table>
<tr>
<td>1.
The length of the rectangle is 5 cm.
The width of the rectangle is 4 cm.
The total number of squares in the rectangle is 20
The area of the rectangle is 20 cm²</td>
<td>2. A B C</td>
<td>3. A – 72xm
B – 3cm
C – 9cm</td>
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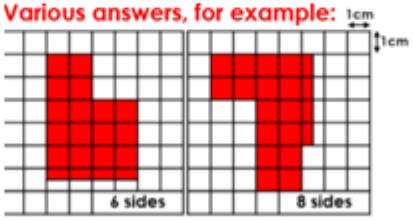
<td>4.
Do you agree with Rosie? No
Explain your answer.
It is not a rectangle.</td>
<td>5.
Various answers, for example:
 
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