

## Area Maze 1, 2

Date:

Name:

Use your understanding of area and logic to help you give the missing dimensions and areas for each problem below.

<p>[1]</p>	<p>[2]</p>
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## Triangle Hunt 1, 2, 3

**Instructions:**

<p>Join any three of the given dots with straight lines (use a ruler) to make a triangle with an area of 3 units<sup>2</sup></p>	<p><b>Here is the solution:</b></p>	<p><b>Working for the solution:</b></p>
		<p>base = 2 units height = 3 units</p> <p>formula for area of triangle is <math>(bh)/2</math></p> <p>= <math>(2 \times 3)</math> divided by 2</p> <p>= <math>(6)</math> divided by 2</p> <p>= <b>3 units<sup>2</sup></b></p>
<p>[1] Area = 3 square units</p>	<p>[2] Area = 1 square unit</p>	<p>[3] Area = 2 square units</p>

## Extra Challenge 1, 2, 3

<p>[1] Find the area of the below hexagon. It is completely inside a square.</p>	<p>[2] Find the area of the below pentagon. A straight line from <i>a</i> to <i>c</i> is 7 cm. Each side is 4 cm.</p>	<p>[3] Give the dimensions of the rectangle below. The area is 12 cm<sup>2</sup> and the perimeter is 16 cm.</p>
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### Area Maze 1, 2

Date:

Name: **SOLUTIONS**

Use your understanding of area and logic to help you give the missing dimensions and areas for each problem below.

<p>[1]</p>	<p>[2]</p>
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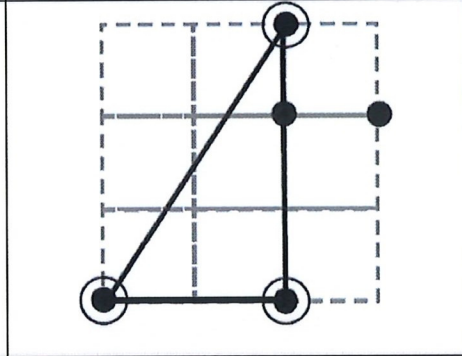
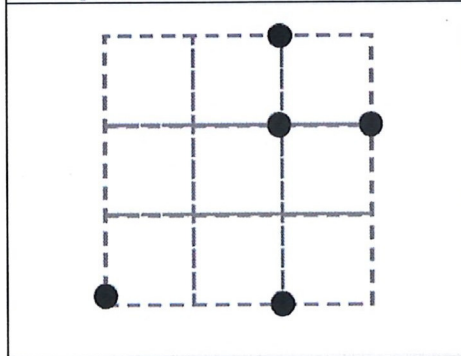
### Triangle Hunt 1, 2, 3

Instructions:

Join any three of the given dots with straight lines (use a ruler) to make a triangle with an area of 3 units<sup>2</sup>

Here is the solution:

Working for the solution:



base = 2 units  
 height = 3 units  
 formula for area of triangle is  $(bh)/2$   
 $= (2 \times 3)$  divided by 2  
 $= (6)$  divided by 2  
 $= 3 \text{ units}^2$

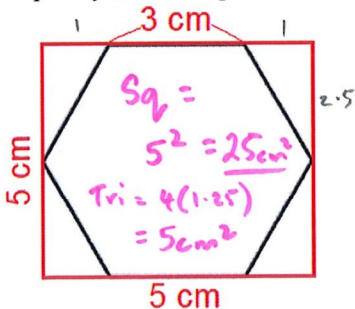
[1] Area = 3 square units

[2] Area = 1 square unit

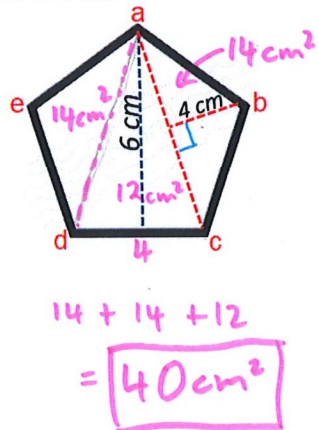
[3] Area = 2 square units

### Extra Challenge 1, 2, 3

[1] Find the area of the below hexagon. It is completely inside a square.



[2] Find the area of the below pentagon. A straight line from *a* to *c* is 7 cm. Each side is 4 cm.



[3] Give the dimensions of the rectangle below. The area is 12 cm<sup>2</sup> and the perimeter is 16 cm.

