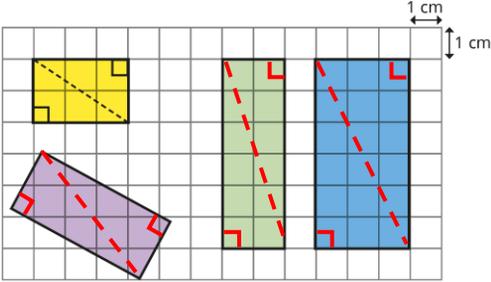


**Y6 – Spring – Block 5 – Step 4 – Area of a right-angled triangle Answers**

Question	Answer
1	<p>In each rectangle, either diagonal could be drawn.</p> 
2	<p>a) <math>18 \text{ cm}^2</math>      <math>9 \text{ cm}^2</math>            b) <math>\frac{1}{2} \times \text{base} \times \text{height}</math>      or      <math>\frac{1}{2} \times \text{area of rectangle}</math></p>
3	<p>triangle A = <math>5 \text{ cm}^2</math>            triangle B = <math>8 \text{ cm}^2</math>            triangle C = <math>10 \text{ cm}^2</math>            triangle D = <math>3 \text{ cm}^2</math></p>
4	<p>Yes            The base and perpendicular height must be at right angles to each other.</p>
5	<p>a) <math>\frac{1}{2} \times 8 \times 6 = 24 \text{ cm}^2</math>            b) <math>\frac{1}{2} \times 15 \times 8 = 60 \text{ mm}^2</math>            c) <math>\frac{1}{2} \times 5 \times 12 = 30 \text{ cm}^2</math></p>
6	<p>a) <math>54 \text{ cm}^2</math>            b) <math>120 \text{ mm}^2</math>            c) <math>84 \text{ m}^2</math>            d) <math>240 \text{ mm}^2</math></p>
7	<p>a) A <math>3 \text{ cm}^2</math>    B <math>6 \text{ cm}^2</math>    C <math>9 \text{ cm}^2</math>            b) The area increases by <math>3 \text{ cm}^2</math> each time the base increases by 1 cm. It is increasing by half the height each time.            If both the base and the height increase, the area goes up by a greater amount each time.</p>