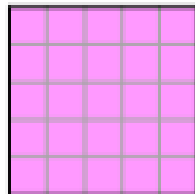


GREY GROUP

1a. Hafsa is buying wooden tiles for all the downstairs rooms in her house.

The area of each tile is 1 m^2 .



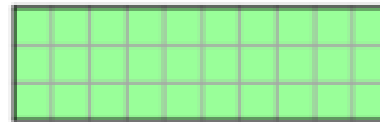
Hafsa thinks that she needs 25 tiles.
Is she correct? Explain your answer.



Not to scale

1b. Chuan is buying floor tiles for the school hall.

The area of each tile is 1 m^2 .

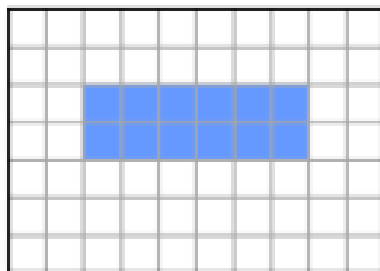


Chuan thinks he needs to order 27 tiles.
Is he correct? Explain your answer.



Not to scale

2a. This rectangle has an area of 12 cm^2 .
Find other possible lengths and widths
which give the same area.

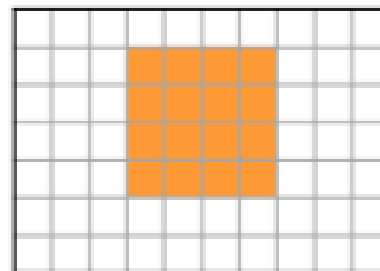


Find 2 possible answers.



Not to scale

2b. This rectangle has an area of 16 cm^2 .
Find other possible lengths and widths
which give the same area.



Find 2 possible answers.



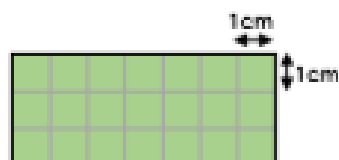
Not to scale

3a. Lucy has calculated the area of a rectangle.



Lucy

The area of this rectangle is 20 cm^2 because $3\text{ cm} \times 7\text{ cm} = 20\text{ cm}^2$.



Is Lucy correct? Prove it.



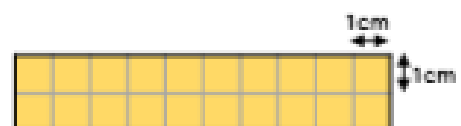
Not to scale

3b. Cian has estimated the area of a rectangle.



Cian

The estimated area of this rectangle is 18 cm^2 because $2\text{ cm} \times 9\text{ cm} = 18\text{ cm}^2$.



Is Cian correct? Prove it.



Not to scale

GREEN GROUP

4a. Mrs Kelly is buying turf tiles for the playing field at school.

The area of each tile is 2m^2 .



Mrs Kelly thinks she needs to order 50 tiles.

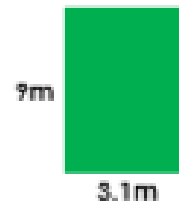
Is she correct? Explain your answer.



Not to scale

4b. Ben is buying turf tiles for his garden.

The area of each tile is 3m^2 .

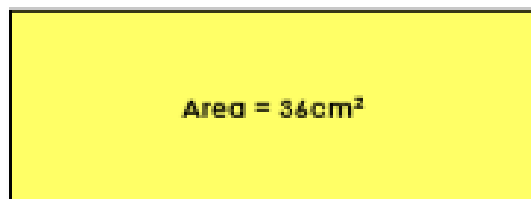


Ben thinks he needs to order 9 tiles. Is he correct? Explain your answer.



Not to scale

5a. A rectangle has an area of 36cm^2 . What could the dimensions be?

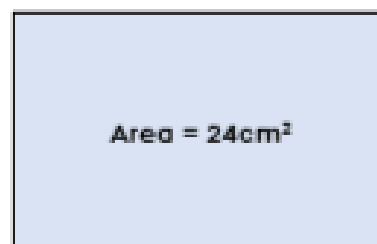


Find 3 possible answers.



Not to scale

5b. A rectangle has an area of 24cm^2 . What could the dimensions be?



Find 3 possible answers.



Not to scale

6a. Sinead has estimated the area of a rectangle.



Sinead

The estimated area of this rectangle is 96cm^2 because $8\text{cm} \times 12\text{cm} = 96\text{cm}^2$.



Is Sinead correct? Prove it.



Not to scale

6b. Josh has estimated the area of a rectangle.



Josh

The estimated area of this rectangle is 24cm^2 because $4\text{cm} \times 6\text{cm} = 24\text{cm}^2$.





Is Josh correct? Prove it.



Not to scale

GOLD GROUP

<p>7a. Gabriel is creating a mosaic that has an area of approximately 600cm^2. He wants to use two different tiles.</p> <div><div><div>5.5cm</div><div>A</div><div>50mm</div></div><div><div>B</div><div>10cm</div></div></div> <p>If he uses 10 of tile B, he thinks he will be able to use 3 tile A's in the remaining area.</p> <p>Is he correct? Explain your answer.</p> <div><div>☆</div><div>Not to scale</div><div>2</div></div>	<p>7b. Isabel is creating a pattern that has an area of approximately 672cm^2. She wants to use two different tiles.</p> <div><div><div>6cm</div><div>A</div><div>80mm</div></div><div><div>B</div><div>12cm</div></div></div> <p>If she uses 5 of tile A, she thinks she will be able to use 8 tile B's in the remaining area.</p> <p>Is she correct? Explain your answer.</p> <div><div>☆</div><div>Not to scale</div><div>2</div></div>
<p>8a. Two rectangles have a combined area of approximately 10cm^2.</p> <p>What could the dimensions of each rectangle be?</p> <p>The rectangles have different areas. At least one rectangle has a side which is a decimal number.</p> <p>Find 3 possible answers.</p> <div><div>☆</div><div>Not to scale</div><div>2</div></div>	<p>8b. Two rectangles have a combined area of approximately 25m^2.</p> <p>What could the dimensions of each rectangle be?</p> <p>The rectangles have different areas. At least one rectangle has a side which is a decimal number.</p> <p>Find 3 possible answers.</p> <div><div>☆</div><div>Not to scale</div><div>2</div></div>
<p>9a. Alice has made a large rectangle using multiples of the rectangles below.</p> <div><div><div><div></div><div>I can use six rectangles to create a large rectangle with an approximate area of 96cm^2.</div></div><div><div>Alice</div><div><div><div>10mm</div><div>A</div><div>12.1cm</div></div><div><div>3.2cm</div><div>B</div><div>5.6cm</div></div></div></div></div><p>Is Alice correct? Prove it.</p><div><div>☆</div><div>Not to scale</div><div>2</div></div></div>	<p>9b. Johnny has made a large rectangle using multiples of the rectangles below.</p> <div><div><div><div></div><div>I can use nine rectangles to create a large rectangle with an approximate area of 128cm^2.</div></div><div><div>Johnny</div><div><div><div>2.4cm</div><div>B</div><div>44mm</div></div><div><div>23mm</div><div>A</div><div>7.8cm</div></div></div></div></div><p>Is Johnny correct? Prove it.</p><div><div>☆</div><div>Not to scale</div><div>2</div></div></div>