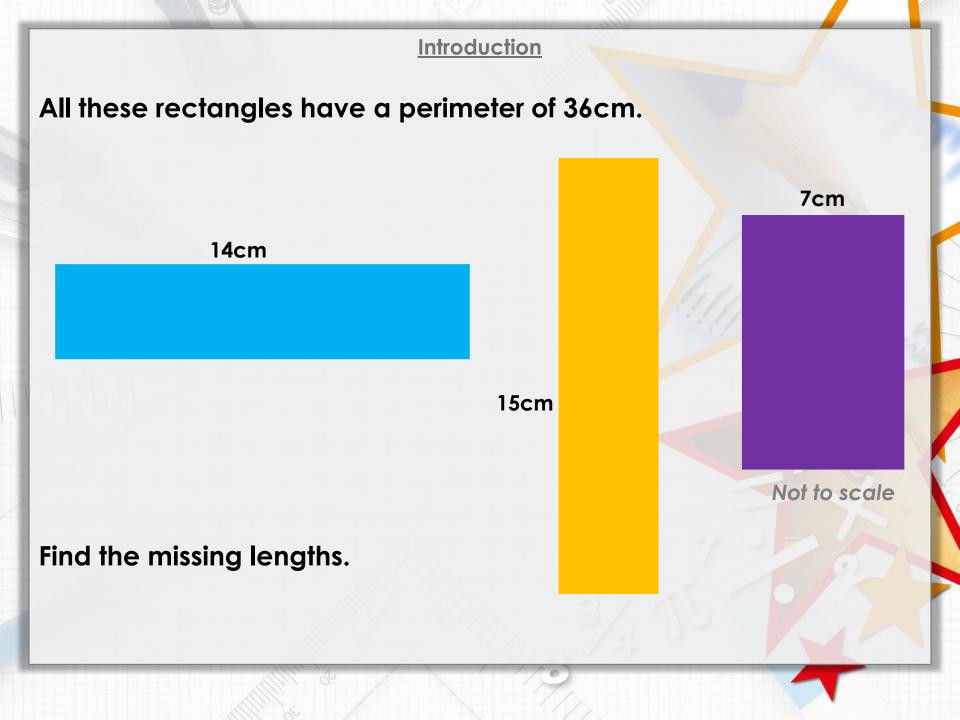
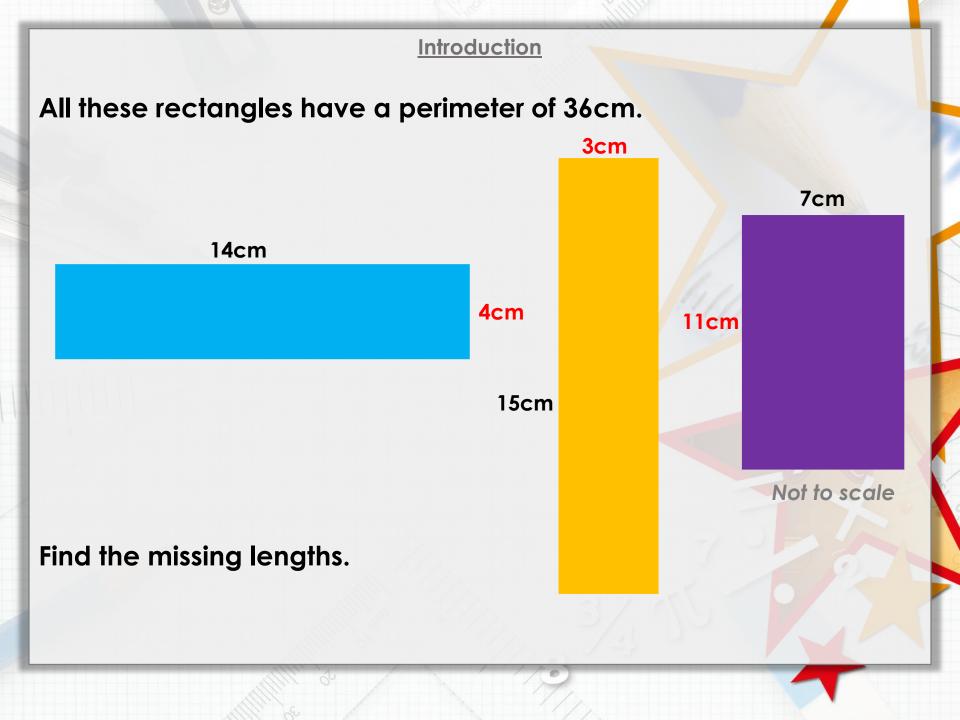
Year 5 — Area and Perimeter

Step 3: Area of Rectangles





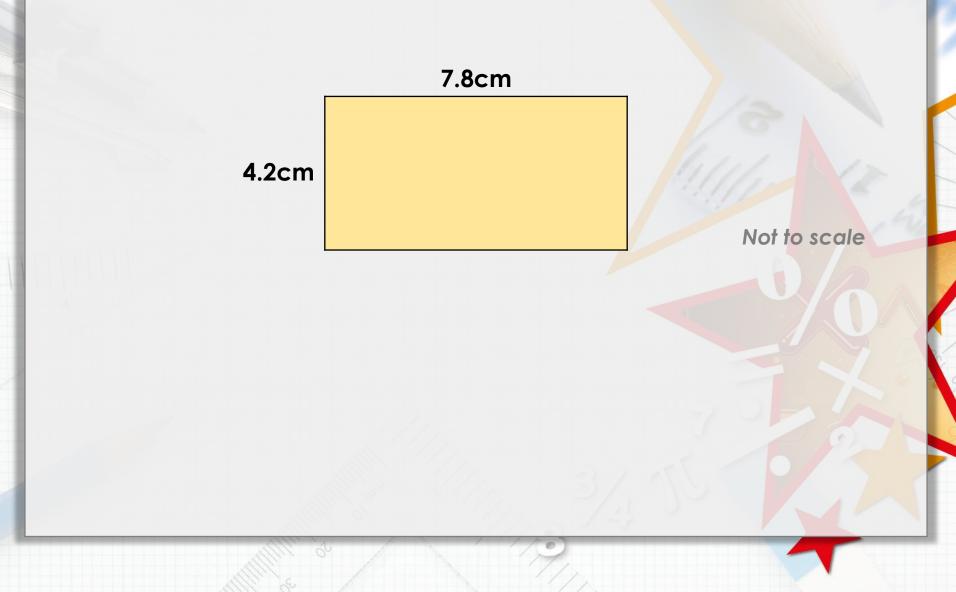
Complete the shape to make a rectangle with an area of 40cm².

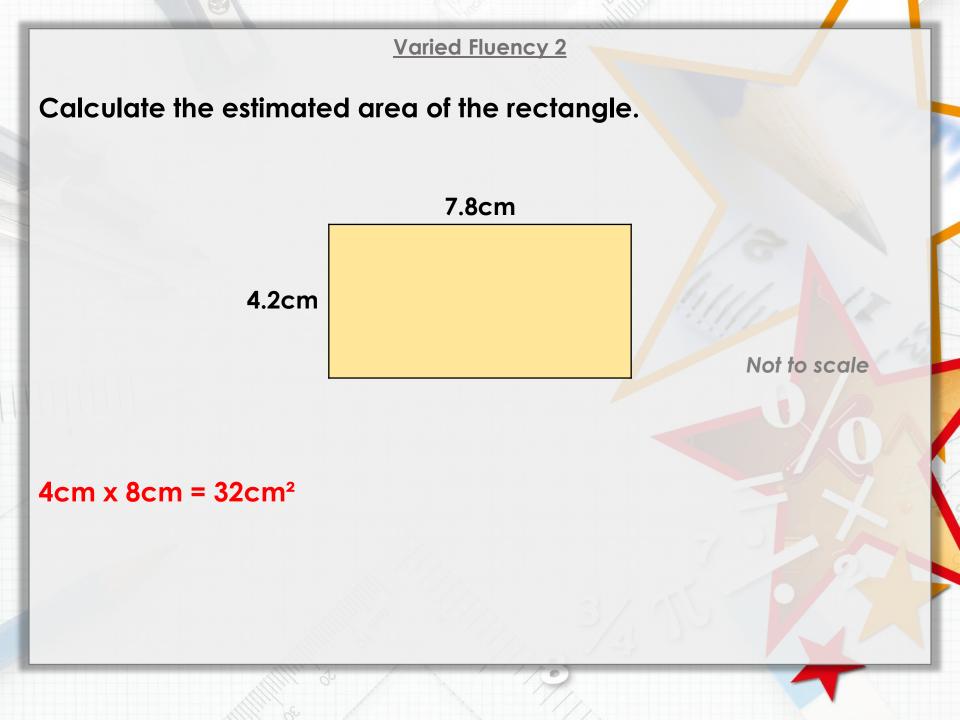
Write down the calculation used to show the length and width of the rectangle.

Complete the shape to make a rectangle with an area of 40cm².

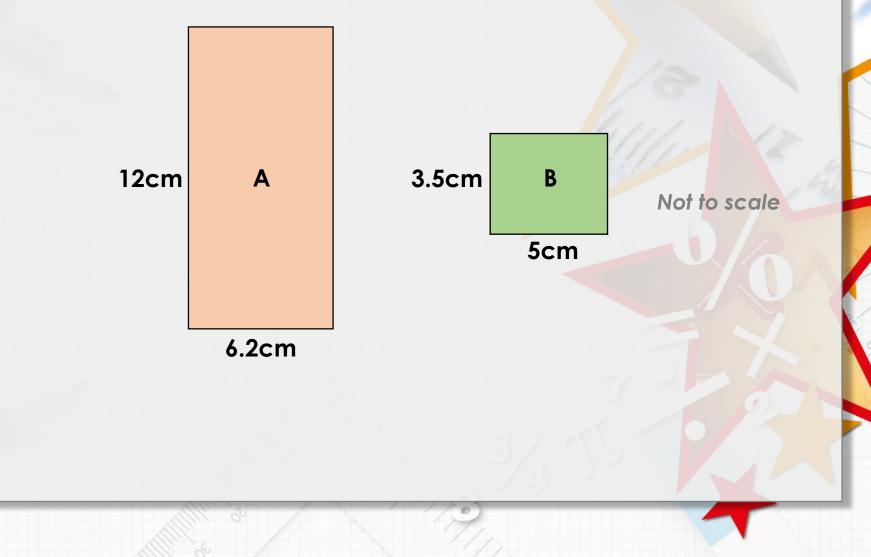
Write down the calculation used to show the length and width of the rectangle. 5cm x 8cm (30 more squares to be shaded)

Calculate the estimated area of the rectangle.

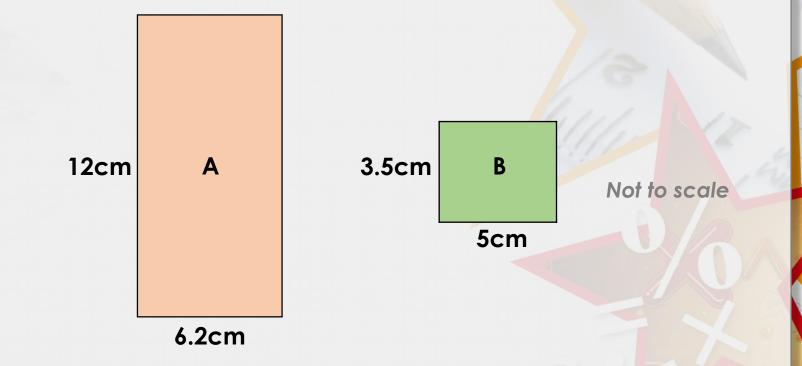




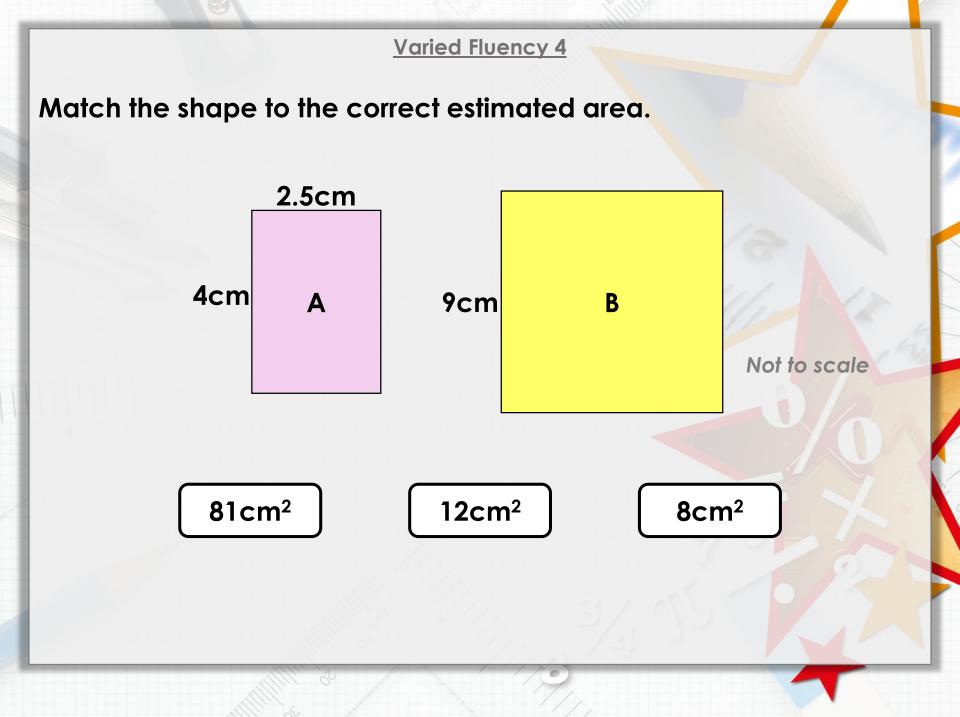
Calculate the total area of both rectangles. Round to estimate where necessary.



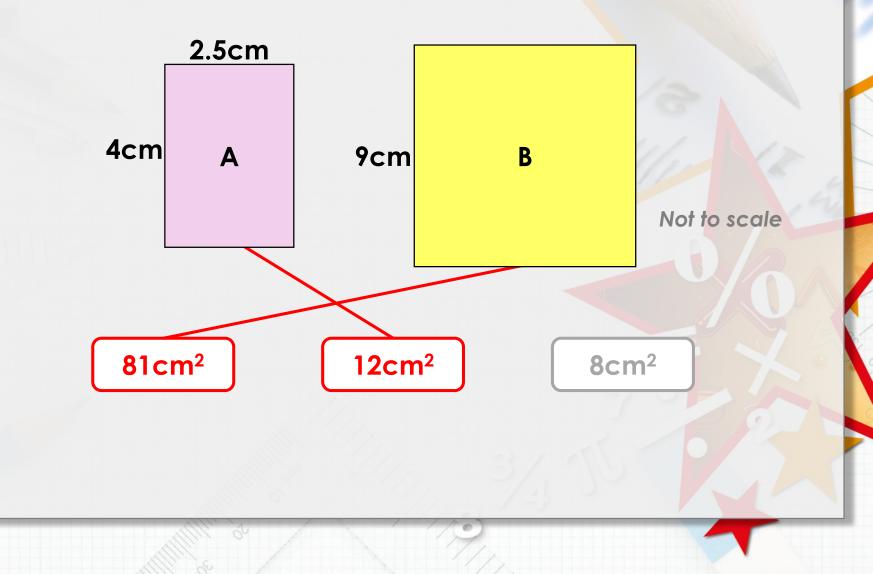
Calculate the total area of both rectangles. Round to estimate where necessary.



A: 6cm x 12cm = 72cm²; B: 4cm x 5cm = 20cm²; total area: 72cm² + 20cm² = 92cm²

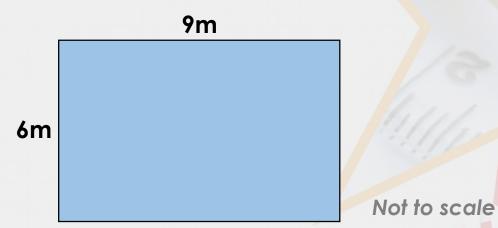


Match the shape to the correct estimated area.



Reasoning 1

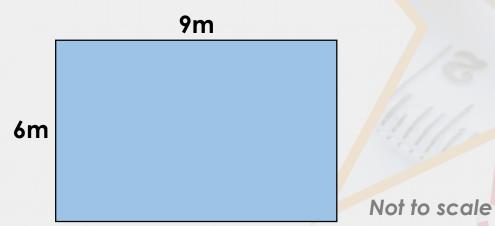
Louise is buying carpet tiles for the upstairs of her house. The area of each tile is 2m².



Louise thinks she needs to order 54 tiles. Is she correct? Explain your answer.

Reasoning 1

Louise is buying carpet tiles for the upstairs of her house. The area of each tile is $2m^2$.

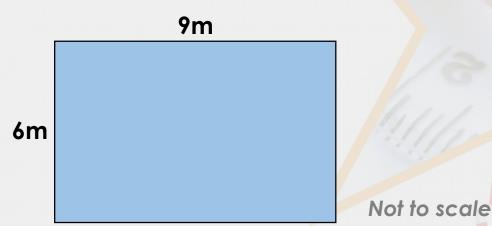


Louise thinks she needs to order 54 tiles. Is she correct? Explain your answer.

She is incorrect because...

Reasoning 1

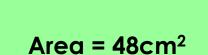
Louise is buying carpet tiles for the upstairs of her house. The area of each tile is 2m².



Louise thinks she needs to order 54 tiles. Is she correct? Explain your answer.

She is incorrect because she has found the area of the upstairs, but she needed to divide the area by 2 because the tiles are $2m^2$. $54m^2 \div 2m^2 = 27$ so Louise needed 27 tiles. Problem Solving 1

A rectangle has an area of 48cm². What could the dimensions be?

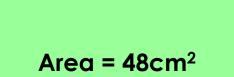


Not to scale

Find 3 possible answers.

Problem Solving 1

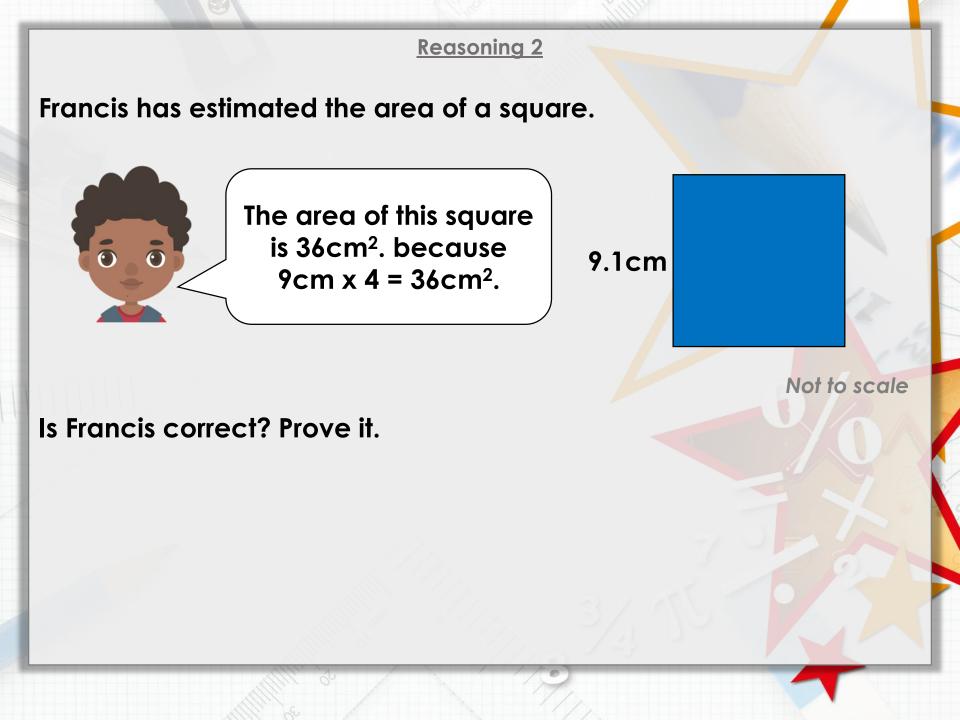
A rectangle has an area of 48cm². What could the dimensions be?

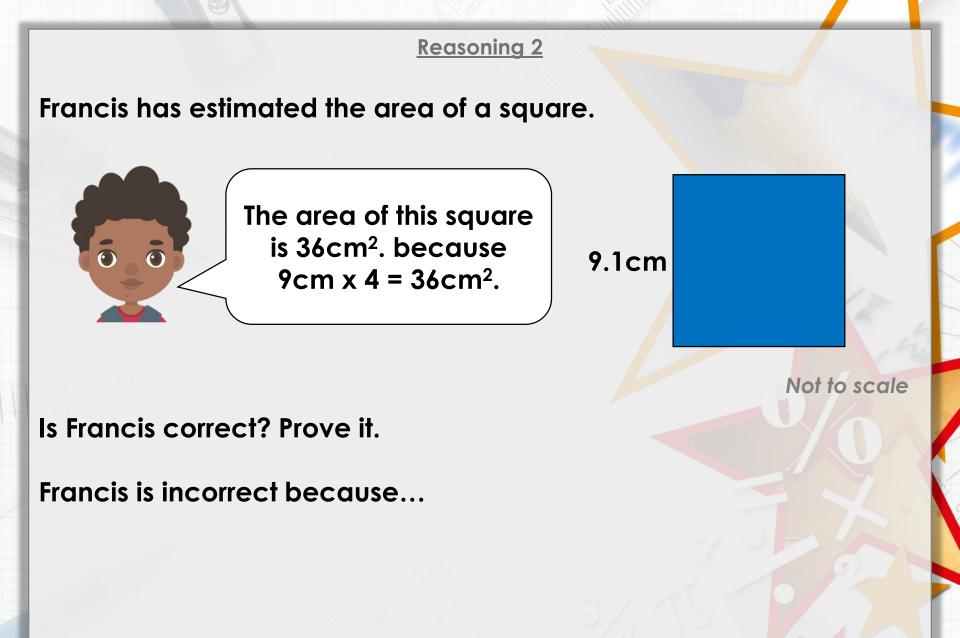


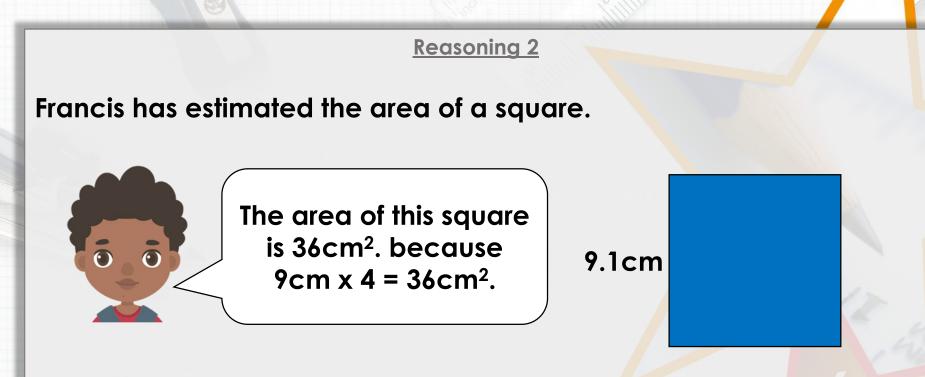
Not to scale

Find 3 possible answers.

Various answers, for example: 8cm x 6cm, 24cm x 2cm, 12cm x 4cm







Not to scale

Is Francis correct? Prove it.

Francis is incorrect because he has found the perimeter of the square by multiplying by 4. He should have multiplied 9 by 9 to get 81cm².