

Varied Fluency

Step 4: Area of Rectangles

National Curriculum Objectives:

Mathematics Year 5: (5M7b) [Calculate and compare the area of rectangles \(including squares\), and including using standard units, square centimetres \(cm²\) and square metres \(m²\) and estimate the area of irregular shapes](#)

Differentiation:

Developing Questions to support calculating the area of rectangles by counting squares (includes table facts to 12 x 12).

Expected Questions to support calculating the area of rectangles by counting squares and beginning to use the correct formula (Includes some decimals and multiplying 2-digit numbers by 1-digit).

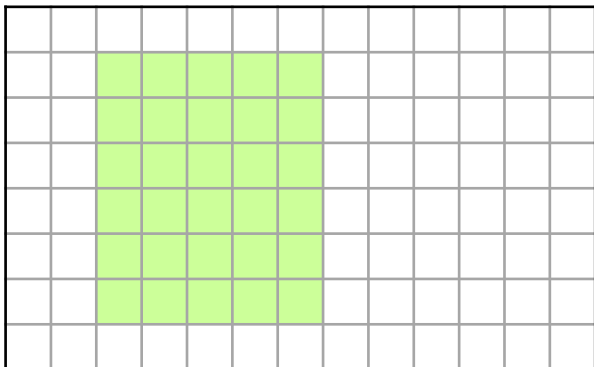
Greater Depth Questions to support calculating the area of rectangles using the correct formula (Includes decimals and multiplying 2-digit numbers by 1-digit or 2-digits).

[More resources](#) which follow the same small steps as White Rose.

Did you like this resource? Don't forget to [review](#) it on our website.

Area of Rectangles

1a. Complete the shape so that the rectangle has an area of 54cm^2 .

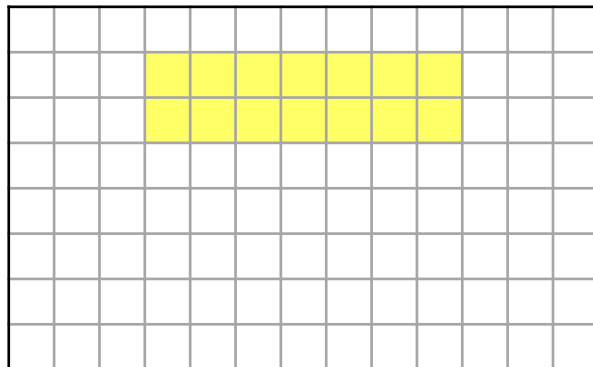


Not to scale

VF

Area of Rectangles

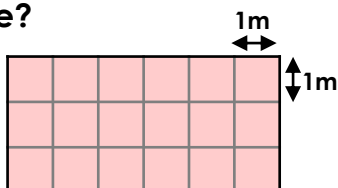
1b. Complete the shape so that the rectangle has an area of 42cm^2 .



Not to scale

VF

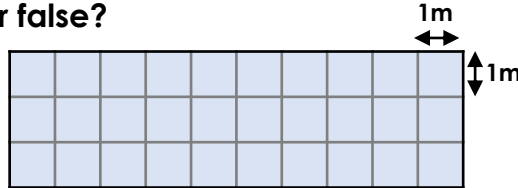
2a. The area of this rectangle is 20m^2 . True or false?



Not to scale

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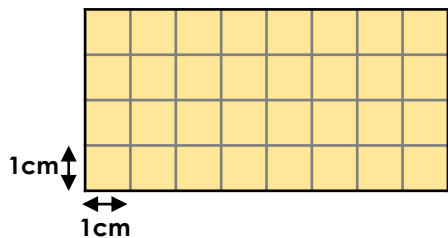
2b. The area of this rectangle is 27m^2 . True or false?



Not to scale

VF

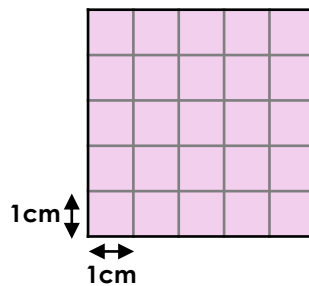
3a. Count the squares to find the area.



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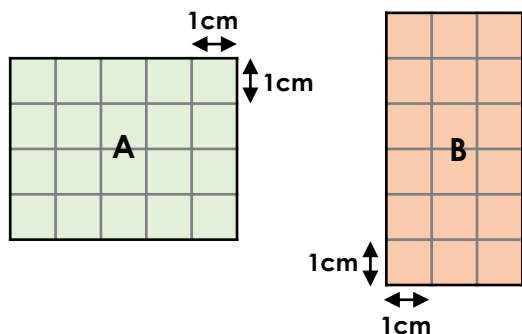
3b. Count the squares to find the area.



Not to scale

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4a. Match the shape to the correct area.



20cm^2

18cm^2

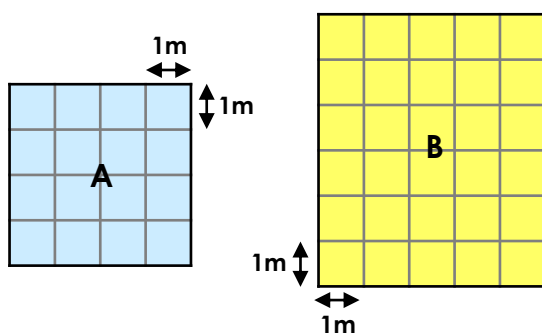
21cm^2



Not to scale

VF

4b. Match the shape to the correct area.



30m^2

16m^2

25m^2

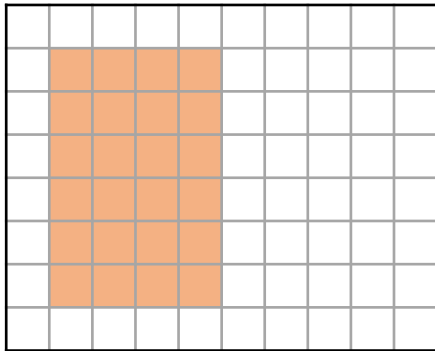


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VF

Area of Rectangles

5a. Complete the shape so that the rectangle has an area of 48cm^2 .

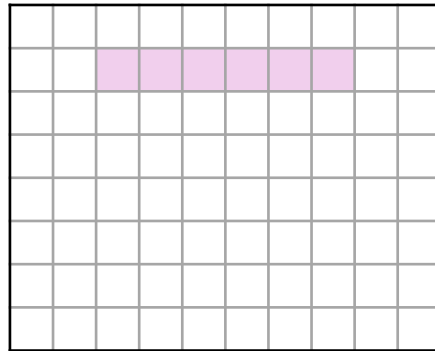


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Area of Rectangles

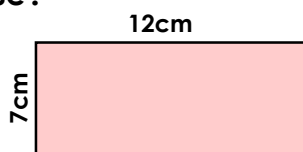
5b. Complete the shape so that the rectangle has an area of 36cm^2 .



Not to scale

VF

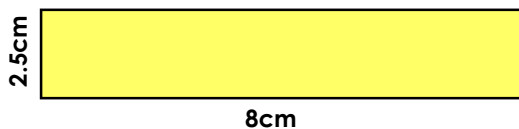
6a. The area of this rectangle is 81cm^2 . True or false?



Not to scale

VF

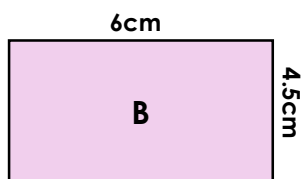
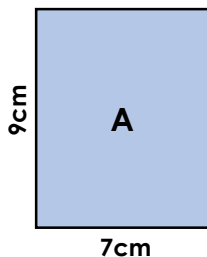
6b. The area of this rectangle is 21cm^2 . True or false?



Not to scale

VF

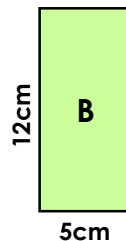
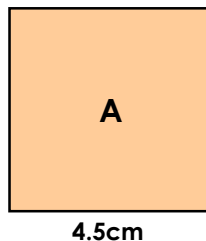
7a. Find the area of these rectangles.



Not to scale

VF

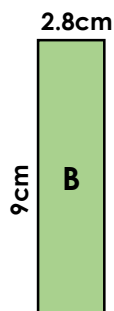
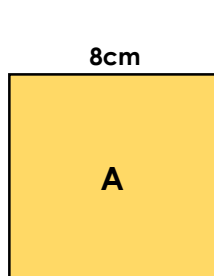
7b. Find the area of these rectangles.



Not to scale

VF

8a. Match the shape to the correct area.



23.6cm^2

25.2cm^2

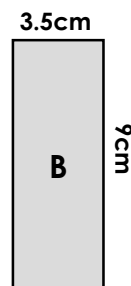
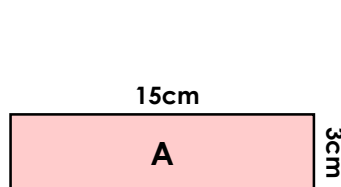
64cm^2



Not to scale

VF

8b. Match the shape to the correct area.



45cm^2

31.5cm^2

25cm^2

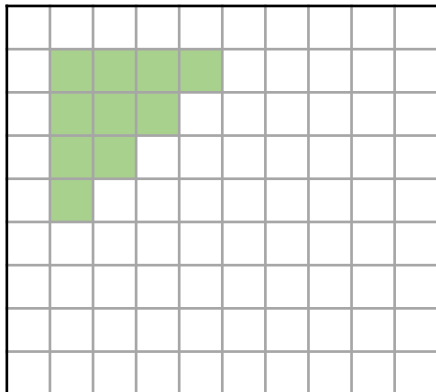


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Area of Rectangles

9a. Complete the shape to make a rectangle with an area of 56cm^2 .

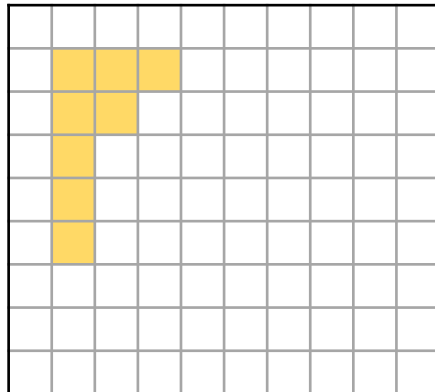


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Area of Rectangles

9b. Complete the shape to make a rectangle with an area of 49cm^2 .



Not to scale

VF

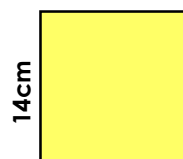
10a. The area of this rectangle is 40.5cm^2 . True or false?



Not to scale

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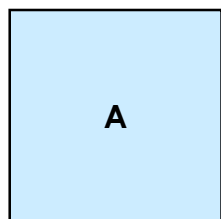
10b. The area of this rectangle is 196cm^2 . True or false?



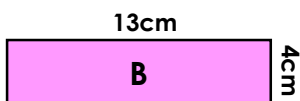
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11a. Find the area of these rectangles.



16cm



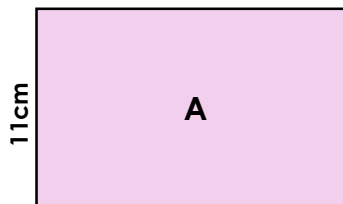
4cm



Not to scale

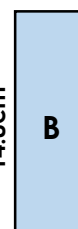
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11b. Find the area of these rectangles.



11cm

15cm



14.8cm

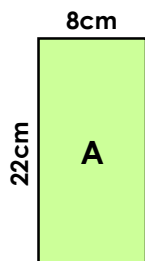
2cm



Not to scale

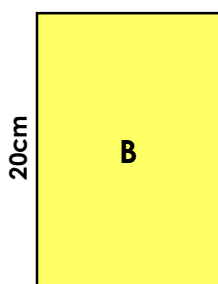
VF

12a. Match the shape to the correct area.



22cm

8cm



20cm

11cm

220cm^2

200cm^2

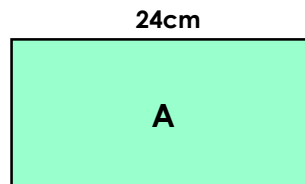
176cm^2



Not to scale

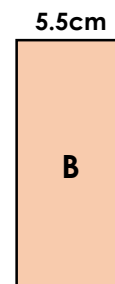
VF

12b. Match the shape to the correct area.



24cm

12cm



5.5cm

7cm

38.5cm^2

288cm^2

110cm^2



Not to scale

VF

Varied Fluency Area of Rectangles

Developing

- 1a. Children complete the shape to the dimensions 6cm x 9cm (24 more squares).
2a. False, the area is 3m x 6m = 18m²
3a. 4cm x 8cm = 32cm²
4a. A = 20cm², B = 18cm²

Expected

- 5a. Children complete the shape to the dimensions 6cm x 8cm (24 more squares).
6a. False, the area is 7 x 12 = 84cm²
7a. A: 7cm x 9cm = 63cm²,
B: 6cm x 4.5cm = 27cm²
8a. A = 64cm², B = 25.2cm²

Greater Depth

- 9a. Children complete the shape to the dimensions of 7cm x 8cm (46 more squares).
10a. False, the area is 10cm x 4.5cm = 45cm²
11a. A: 16cm x 16cm = 256cm²,
B: 13cm x 4cm = 52cm²
12a. A = 176cm², B = 220cm²

Varied Fluency Area of Rectangles

Developing

- 1b. Children complete the shape to the dimensions 7cm x 6cm (28 more squares).
2b. False, the area is 3m x 10m = 30m²
3b. 5cm x 5cm = 25cm²
4b. A = 16m², B = 30m²

Expected

- 5b. Children complete the shape to the dimensions 6cm x 6cm (30 more squares).
6b. False, the area is 8 x 2.5 = 20cm²
7b. A: 4.5cm x 4.5cm = 20.25cm²,
B: 12cm x 5cm = 60cm²
8b. A = 45cm², B = 31.5cm²

Greater Depth

- 9b. Children complete the shape to the dimensions of 7cm x 7cm (41 more squares).
10b. True.
11b. A: 11cm x 15cm = 165cm²,
B: 14.8cm x 2cm = 29.6cm²
12b. A = 288cm², B = 38.5cm²