

Varied Fluency

Step 5: Area of Irregular Shapes

Teaching note: The answers given for this resource are based on counting whole squares (or near whole squares) and then matching part squares to make whole squares. Your pupils may have different answers to those given by us, but if they can explain how they have reached their answer, accept it as correct.

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 finding the approximate area of irregular shapes where each square represents 1cm² or m².

Expected Questions to support finding the approximate area of irregular shapes where each square represents 2, 3, 4 or 5cm² or m².

Greater Depth Questions to support finding the approximate area of irregular shapes where each square represents 0.5, 1.5, 2.5 or 3.5cm² or m².

More [Year 5 Perimeter and Area](#) resources.

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

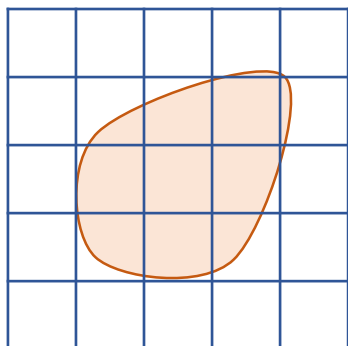
Area of Irregular Shapes

1a. If each square represents 1m^2 , which is the best approximation of the area of this shape?

A = 3m^2

B = 7m^2

C = 10m^2



Not to scale



VF

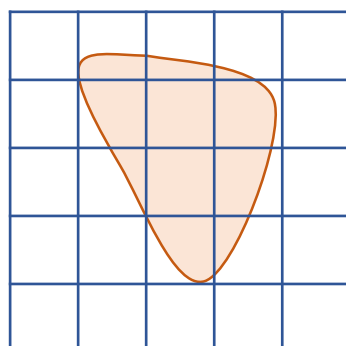
Area of Irregular Shapes

1b. If each square represents 1m^2 , which is the best approximation of the area of this shape?

A = 6m^2

B = 4m^2

C = 10m^2

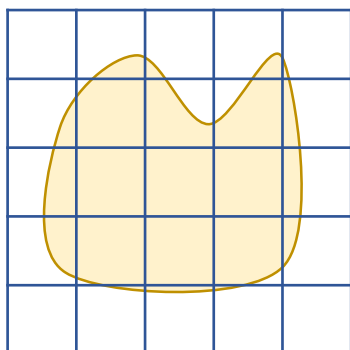


Not to scale



VF

2a. True or false? If each square represents 1cm^2 , this shape has an approximate area of 10cm^2 .

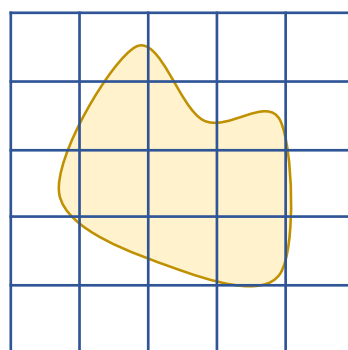


Not to scale



VF

2b. True or false? If each square represents 1cm^2 , this shape has an approximate area of 6cm^2 .

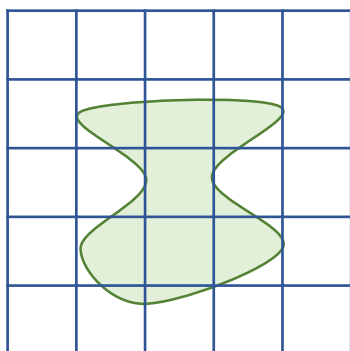


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VF

3a. Each square represents 1cm^2 . Is the approximate area of this shape more or less than 10cm^2 ?

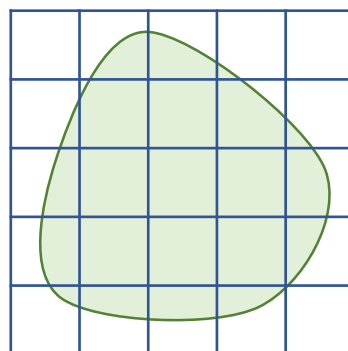


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3b. Each square represents 1cm^2 . Is the approximate area of this shape more or less than 9cm^2 ?



Not to scale



VF

Area of Irregular Shapes

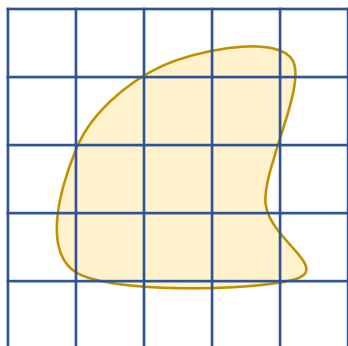
Area of Irregular Shapes

4a. If each square represents 2m^2 , which is the best approximation of the area of this shape?

A = 20m^2

B = 23m^2

C = 17m^2



Not to scale



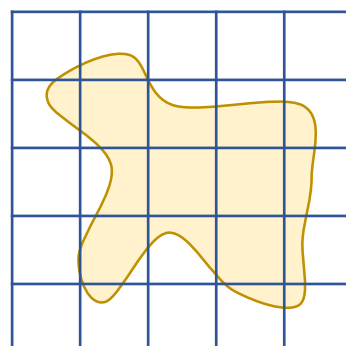
VF

4b. If each square represents 2m^2 , which is the best approximation of the area of this shape?

A = 24m^2

B = 18m^2

C = 9m^2

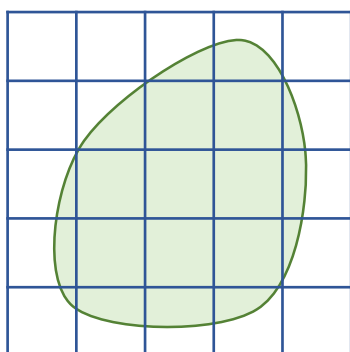


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VF

5a. True or false? If each square represents 3cm^2 , this shape has an approximate area of 36cm^2 .

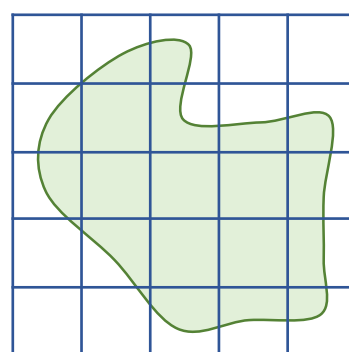


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VF

5b. True or false? If each square represents 2cm^2 , this shape has an approximate area of 12cm^2 .

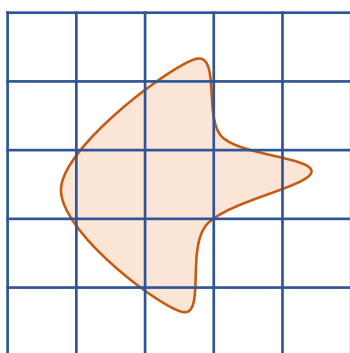


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VF

6a. Each square represents 4cm^2 . Is the approximate area of this shape more or less than 20cm^2 ?

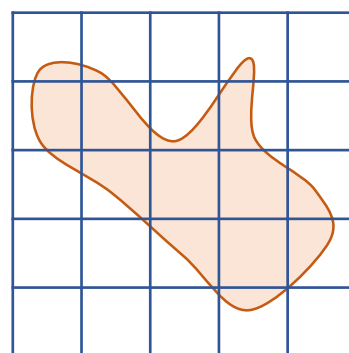


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6b. Each square represents 5cm^2 . Is the approximate area of this shape more or less than 45cm^2 ?



Not to scale



VF

Area of Irregular Shapes

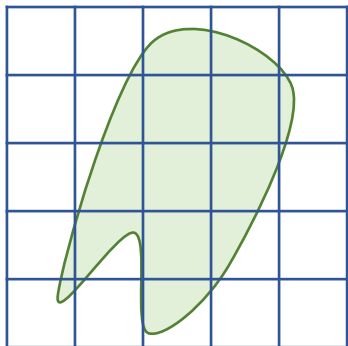
Area of Irregular Shapes

7a. If each square represents 0.5 m^2 , which is the best approximation of the area of this shape?

A = 9 m^2

B = 4.5 m^2

C = 18 m^2



Not to scale



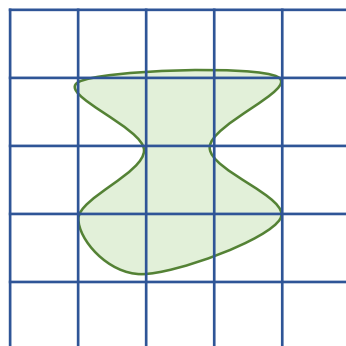
VF

7b. If each square represents 0.5 m^2 , which is the best approximation of the area of this shape?

A = 3 m^2

B = 6 m^2

C = 9 m^2

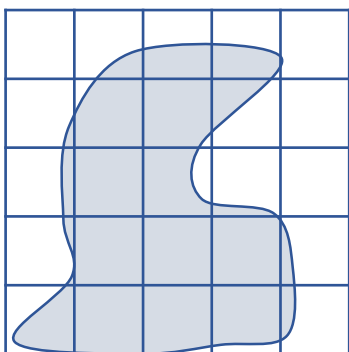


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VF

8a. True or false? If each square represents 1.5 cm^2 , this shape has an approximate area of 18 cm^2 .

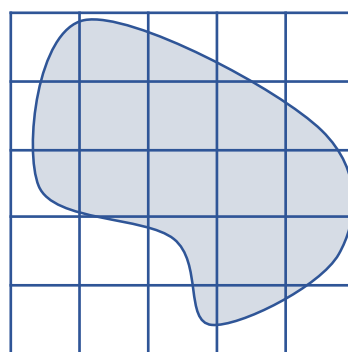


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VF

8b. True or false? If each square represents 1.5 cm^2 , this shape has an approximate area of 21 cm^2 .

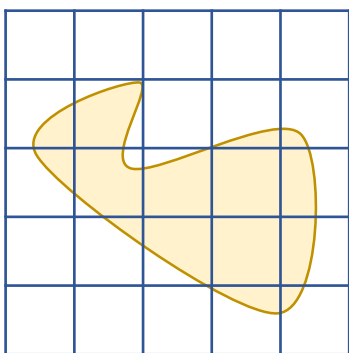


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VF

9a. Each square represents 3.5 cm^2 . Is the approximate area of this shape more or less than 26 cm^2 ?

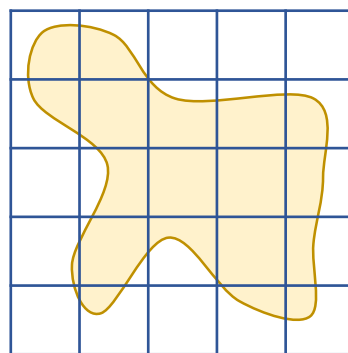


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9b. Each square represents 2.5 cm^2 . Is the approximate area of this shape more or less than 22.5 cm^2 ?



Not to scale



VF

Varied Fluency
Area of Irregular Shapes

Developing

1a. $B = 7\text{m}^2$

2a. **True**

3a. **Less**

Expected

4a. $A = 20\text{m}^2$

5a. **True**

6a. **More**

Greater Depth

7a. $B = 4.5\text{m}^2$

8a. **True**

9a. **Less**

Varied Fluency
Area of Irregular Shapes

Developing

1b. $A = 6\text{m}^2$

2b. **False**

3b. **More**

Expected

4b. $B = 18\text{m}^2$

5b. **False**

6b. **Less**

Greater Depth

7b. $A = 3\text{m}^2$

8b. **False**

9b. **More**