

Varied Fluency

Step 3: Area of a Triangle 1

National Curriculum Objectives:

Mathematics Year 6: (6M7b) [Calculate the area of parallelograms and triangles](#)

Differentiation:

Developing Questions to support estimating and calculating the area of triangles where the squares measure 1cm^2 and part squares are always worth a half.

Expected Questions to support estimating and calculating the area of triangles where the squares measure 1cm^2 .

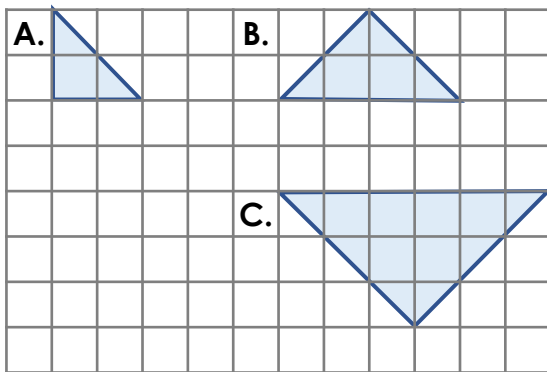
Greater Depth Questions to support estimating and calculating the area of triangles where the squares measure 2cm^2 or 3cm^2 .

More [Year 6 Perimeter, Area and Volume](#) resources.

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

Area of a Triangle 1

1a. Find the area of each triangle by counting the squares, then order them from smallest to largest.



1 square = 1cm^2

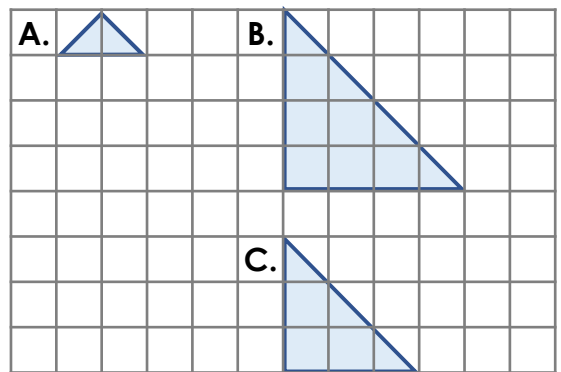
Not to scale



VF

Area of a Triangle 1

1b. Find the area of each triangle by counting the squares, then order them from largest to smallest.



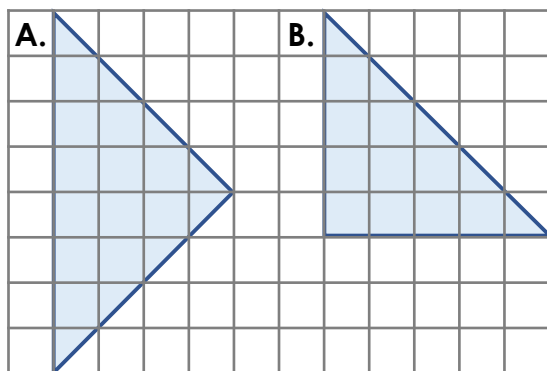
1 square = 1cm^2

Not to scale



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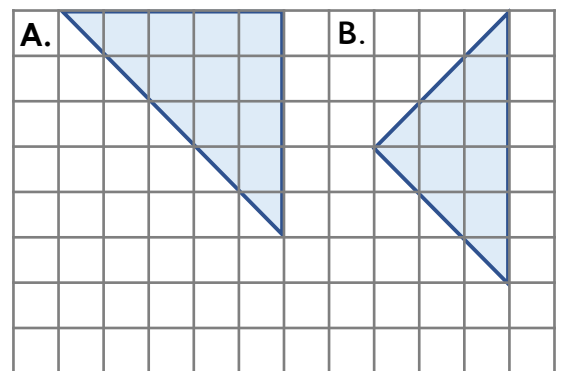
2a. If each square equals 1cm^2 , find the area of these triangles by counting squares.



Not to scale

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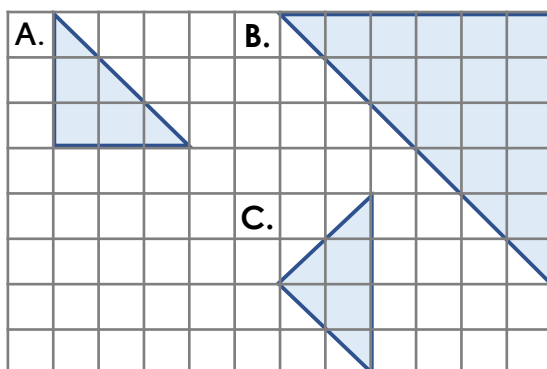
2b. If each square equals 1cm^2 , find the area of these triangles by counting squares.



Not to scale

VF

3a. Each square equals 1cm^2 . Match each triangle to its area.



18cm^2

4cm^2

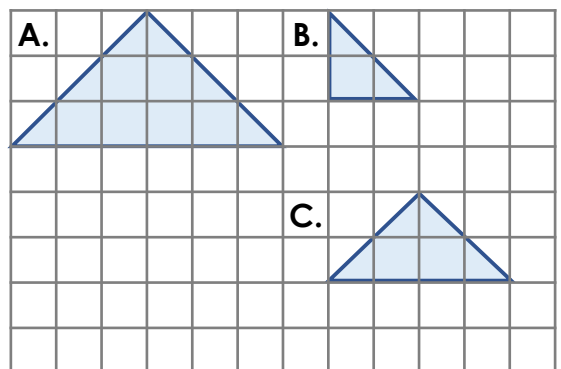
4.5cm^2



Not to scale

VF

3b. Each square equals 1cm^2 . Match each triangle to its area.



4cm^2

9cm^2

2cm^2

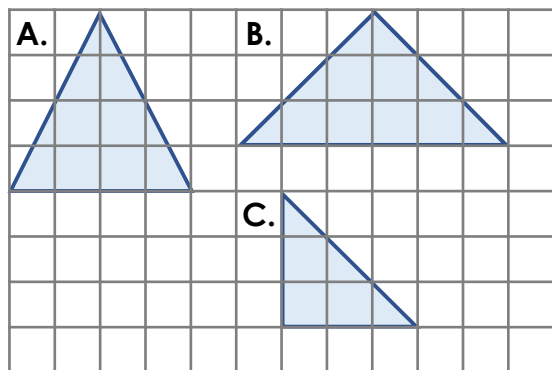


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VF

Area of a Triangle 1

4a. Find the area of each triangle by counting the squares, then order them from smallest to largest.



1 square = 1cm^2

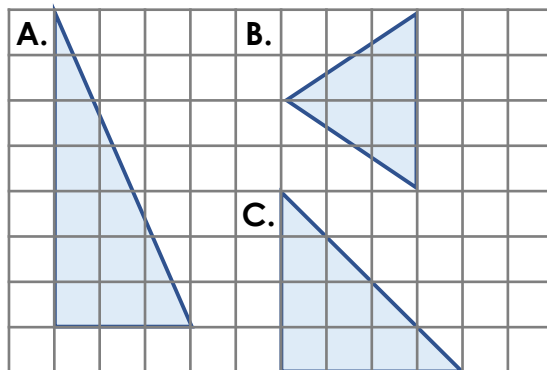
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VF

Area of a Triangle 1

4b. Find the area of each triangle by counting the squares, then order them from largest to smallest.



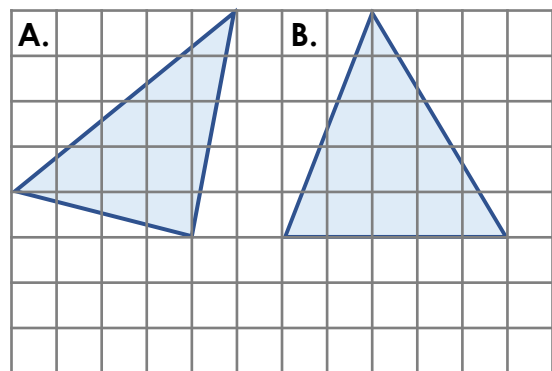
1 square = 1cm^2

Not to scale



VF

5a. If each square equals 1cm^2 , estimate the area of these triangles by counting squares.

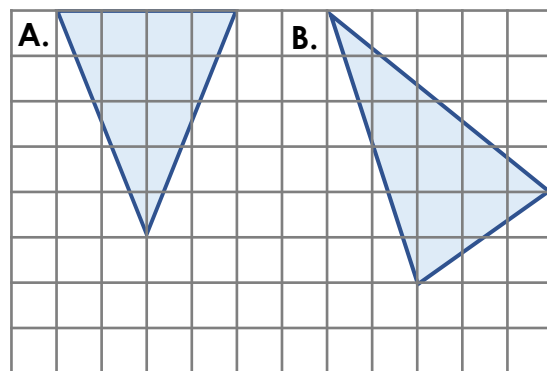


Not to scale



VF

5b. If each square equals 1cm^2 , estimate the area of these triangles by counting squares.

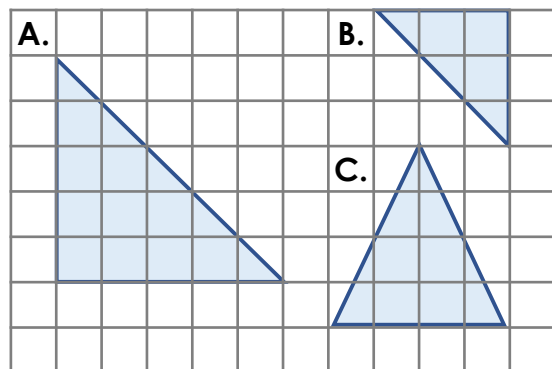


Not to scale



VF

6a. Each square equals 1cm^2 . Match each triangle to its area.



12.5cm²

8cm²

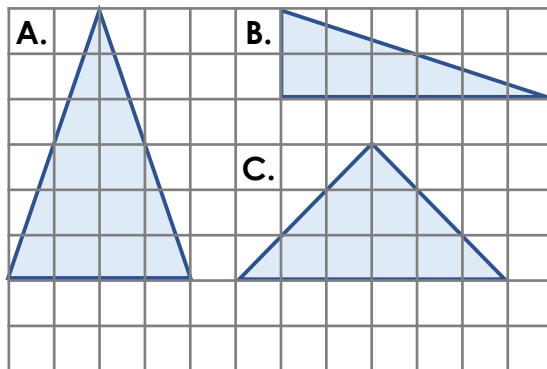
4.5cm²

Not to scale



VF

6b. Each square equals 1cm^2 . Match each triangle to its area.



6cm²

12cm²

9cm²

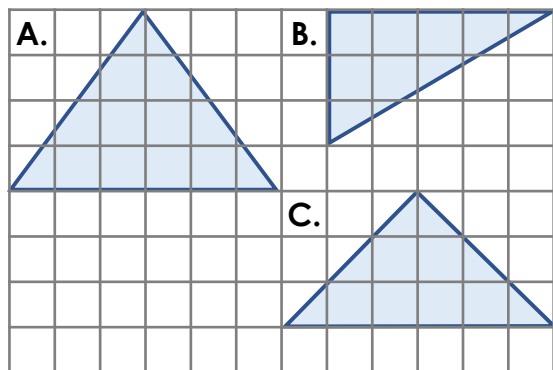
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VF

Area of a Triangle 1

7a. Find the area of each triangle by counting the squares, then order them from smallest to largest.



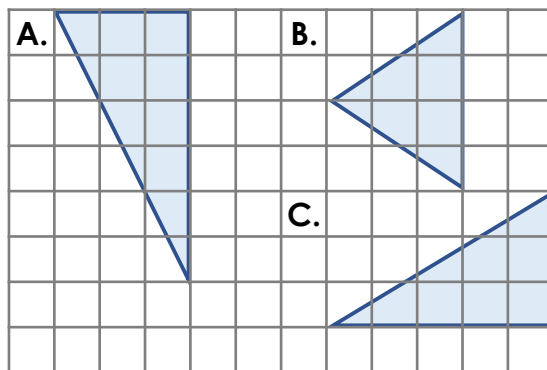
1 square = 2cm^2

Not to scale

VF

Area of a Triangle 1

7b. Find the area of each triangle by counting the squares, then order them from largest to smallest.

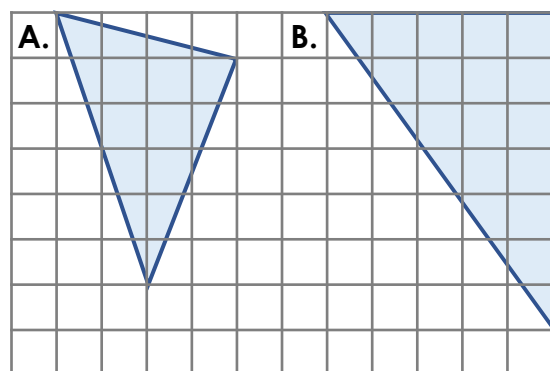


1 square = 3cm^2

Not to scale

VF

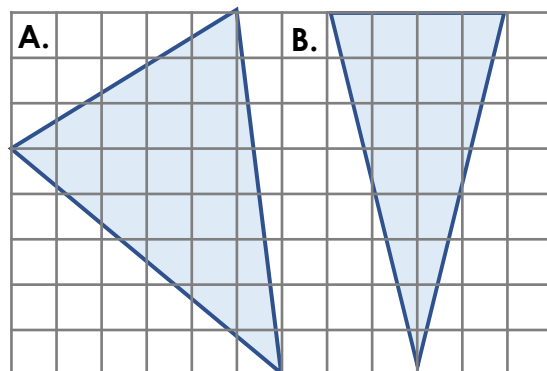
8a. If each square equals 3cm^2 , find the area of these triangles.



Not to scale

VF

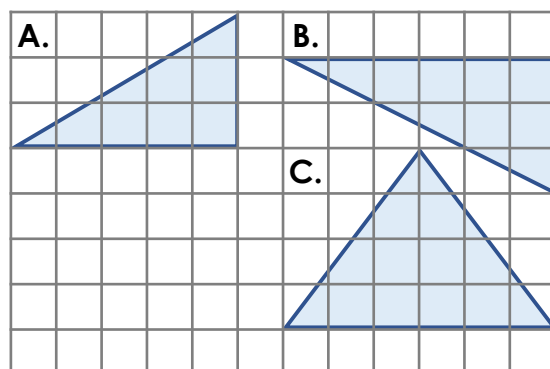
8b. If each square equals 2cm^2 , find the area of these triangles.



Not to scale

VF

9a. Each square equals 2cm^2 . Match each triangle to its area.



24cm^2

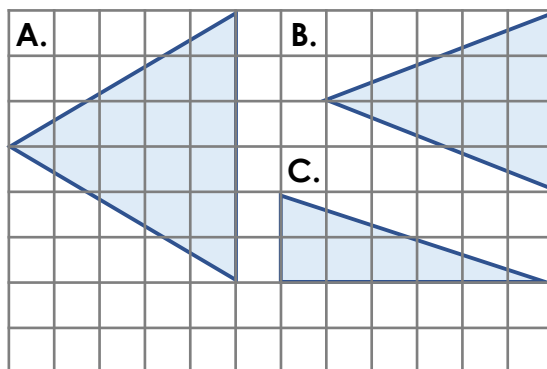
15cm^2

18cm^2

Not to scale

VF

9b. Each square equals 3cm^2 . Match each triangle to its area.



18cm^2

45cm^2

30cm^2

Not to scale

VF

Varied Fluency
Area of a Triangle 1

Developing

- 1a. A. 2cm^2 ; B. 4cm^2 ; C. 9cm^2
2a. A. 16cm^2 ; B. 12.5cm^2
3a. A. 4.5cm^2 ; B. 18cm^2 ; C. 4cm^2

Expected

- 4a. C. 4.5cm^2 ; A. 8cm^2 ; B. 9cm^2
5a. A. Accept answers from 11.5cm^2 to 13.5cm^2 ; B. Accept answers from 11.5cm^2 to 13.5cm^2
6a. A. 12.5cm^2 ; B. 4.5cm^2 ; C. 8cm^2

Greater Depth

- 7a. B. 15cm^2 ; C. 18cm^2 ; A. 24cm^2
8a. A. Accept answers from 33cm^2 to 39cm^2 ; B. Accept answers from 49.5cm^2 to 55.5cm^2
9a. A. 15cm^2 ; B. 18cm^2 ; C. 24cm^2

Varied Fluency
Area of a Triangle 1

Developing

- 1b. B. 8cm^2 ; C. 4.5cm^2 ; A. 1cm^2
2b. A. 12.5cm^2 ; B. 9cm^2
3b. A. 9cm^2 ; B. 2cm^2 ; C. 4cm^2

Expected

- 4b. A. 10.5cm^2 ; C. 8cm^2 ; B. 6cm^2
5b. A. Accept answers from 9cm^2 to 11cm^2 ; B. Accept answers from 14cm^2 to 16cm^2
6b. A. 12cm^2 ; B. 6cm^2 ; C. 9cm^2

Greater Depth

- 7b. A. 27cm^2 ; C. 22.5cm^2 ; B. 18cm^2
8b. A. Accept answers from 46cm^2 to 50cm^2 ; B. Accept answers from 30cm^2 to 34cm^2
9b. A. 45cm^2 ; B. 30cm^2 ; C. 18cm^2