

Varied Fluency

Step 1: What is Area?

National Curriculum Objectives:

Mathematics Year 4: (4M7b) [Find the area of rectilinear shapes by counting squares](#)

Differentiation:

Developing Questions to support the introduction of area. Using squares and rectangles, where the square point of reference is overlaid onto the given shape.

Expected Questions to support the introduction of area. Using rectilinear shapes with up to 6 sides, where a shape is given as a point of reference.

Greater Depth Questions to support the introduction of area. Using rectilinear shapes with up to 8 sides, where a shape is given as a point of reference but does not fit exactly.

More [Year 4 Area](#) resources.

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

What is Area?

1a. How many squares cover the surface of the shape below?



The surface of the shape is covered by ___ squares.



VF

What is Area?

1b. How many squares cover the surface of the shape below?

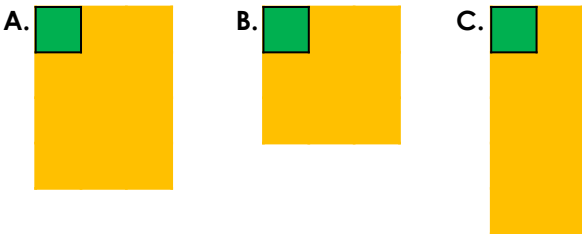


The surface of the shape is covered by ___ squares.



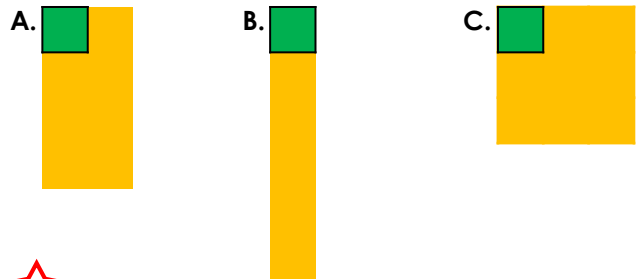
VF

2a. Order the shapes from smallest area to largest area using the square as a reference.



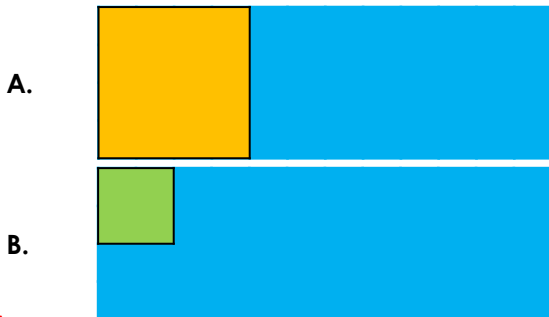
VF

2b. Order the shapes from largest area to smallest area using the square as a reference.



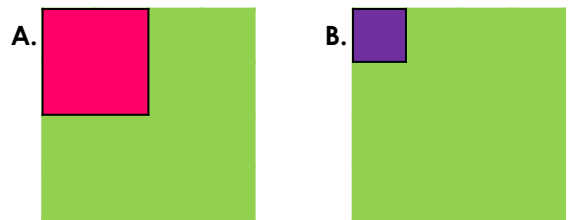
VF

3a. Estimate how many of each square would cover the shapes below.



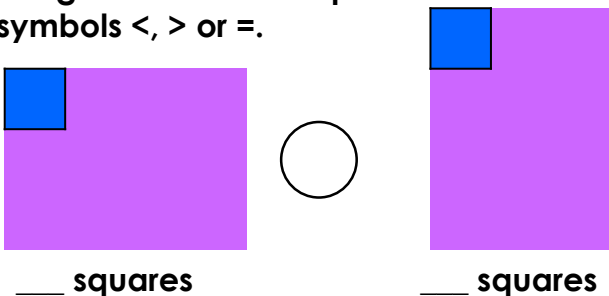
VF

3b. Estimate how many of each square would cover the shapes below.



VF

4a. Compare the area of these shapes using the reference square and the symbols $<$, $>$ or $=$.



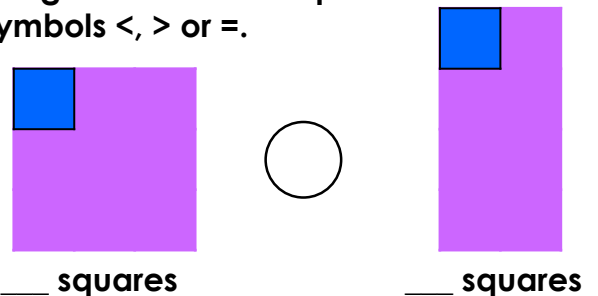
___ squares

___ squares



VF

4b. Compare the area of these shapes using the reference square and the symbols $<$, $>$ or $=$.



___ squares

___ squares



VF

What is Area?

5a. How many squares cover the surface of the shape below?

reference square



The surface of the shape is covered by ___ squares.



VF

What is Area?

5b. How many squares cover the surface of the shape below?

reference square



The surface of the shape is covered by ___ squares.



VF

6a. Order the shapes from smallest area to largest area using the square as a reference.

A.



B.



C.



reference square



VF

6b. Order the shapes from largest area to smallest area using the square as a reference.

A.



B.



C.



reference square



VF

7a. Estimate how many of each square would cover the shape below.



A.



B.



VF

7b. Estimate how many of each square would cover the shape below.



A.



B.



VF

8a. Compare the area of these shapes using the reference square and the symbols $<$, $>$ or $=$.



___ squares

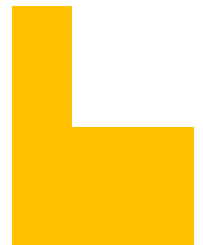
___ squares

reference square



VF

8b. Compare the area of these shapes using the reference square and the symbols $<$, $>$ or $=$.



___ squares

___ squares

reference square



VF

What is Area?

9a. How many squares cover the surface of the shape below?

reference square



The surface of the shape is covered by ___ squares.



VF

What is Area?

9b. How many squares cover the surface of the shape below?

reference square

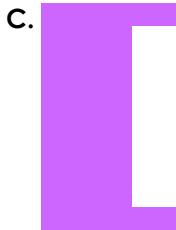


The surface of the shape is covered by ___ squares.



VF

10a. Order the shapes from smallest area to largest area using the square as a reference.

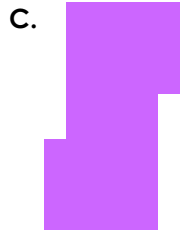
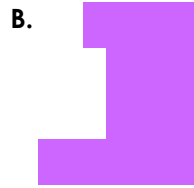
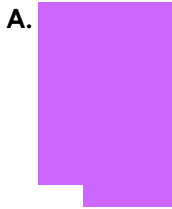


reference square



VF

10b. Order the shapes from largest area to smallest area using the square as a reference.



reference square



VF

11a. Estimate how many of each square would cover the shape below.



A.



B.



VF

11b. Estimate how many of each square would cover the shape below.



A.



B.



VF

12a. Compare the area of these shapes using the reference square and the symbols $<$, $>$ or $=$.



___ squares

___ squares

reference square



VF

12b. Compare the area of these shapes using the reference square and the symbols $<$, $>$ or $=$.



___ squares

___ squares

reference square



VF

Varied Fluency
What is Area?

Developing

- 1a. 15
2a. B, C, A
3a. A. 3 squares; B. 12 squares
4a. =

Expected

- 5a. 9
6a. A, C, B
7a. A. 4 squares; B. 16 squares
8a. <

Greater Depth

- 9a. 7
10a. B, C, A
11a. A. 3 squares; B. 12 squares
12a. >

Varied Fluency
What is Area?

Developing

- 1b. 16
2b. C, A, B
3b. A. 4 squares; B. 16 squares
4b. >

Expected

- 5b. 7
6b. B, A, C
7b. A. 6 squares; B. 24 squares
8b. >

Greater Depth

- 9b. 6
10b. A, C, B
11b. A. 7 squares; B. 28 squares
12b. <