

# 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?



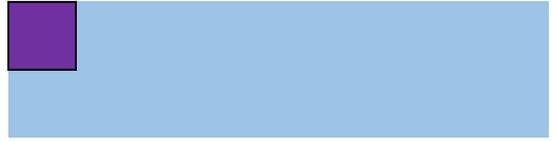
The surface of the shape is covered by \_\_\_ squares.



VF

# What is Area?

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

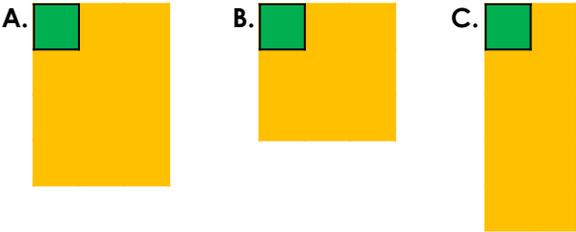


The surface of the shape is covered by \_\_\_ squares.



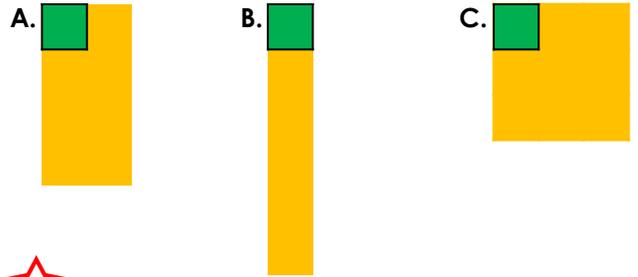
VF

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.



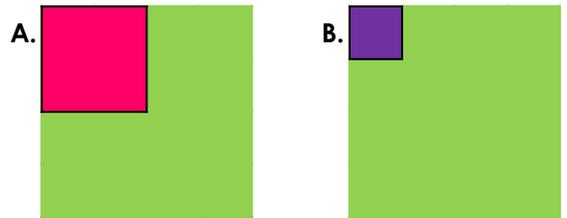
VF

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



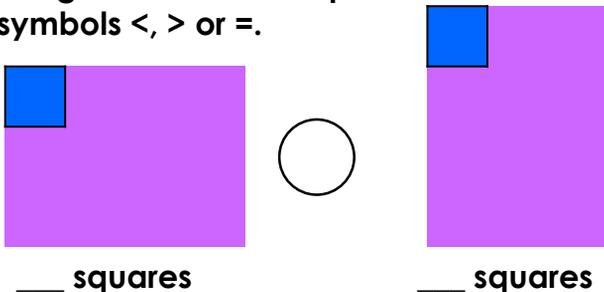
VF

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  $=$ .



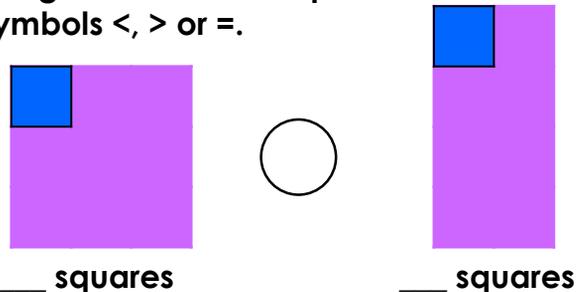
\_\_\_ squares

\_\_\_ 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?



The surface of the shape is covered by \_\_\_ squares.



VF

# What is Area?

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

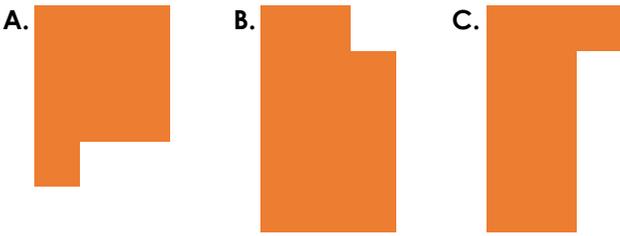


The surface of the shape is covered by \_\_\_ squares.



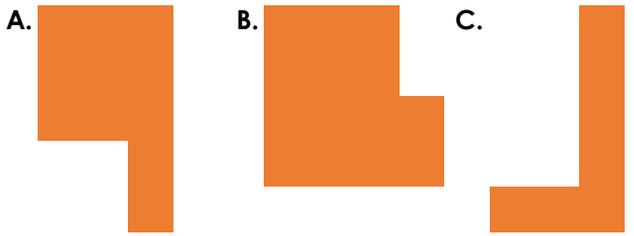
VF

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



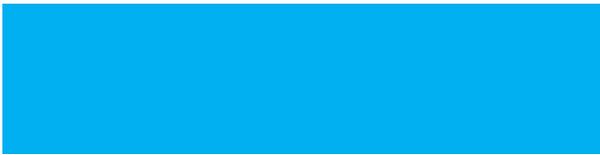
VF

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



VF

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



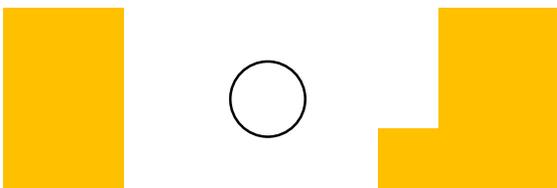
VF

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



VF

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

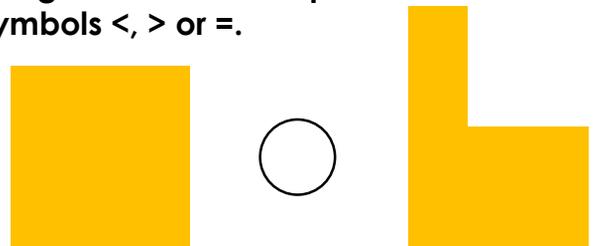


\_\_\_ squares                      \_\_\_ squares

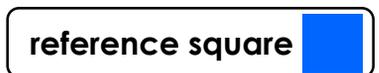


VF

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



\_\_\_ squares                      \_\_\_ squares



VF

# What is Area?

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



The surface of the shape is covered by \_\_\_ squares.



VF

# What is Area?

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

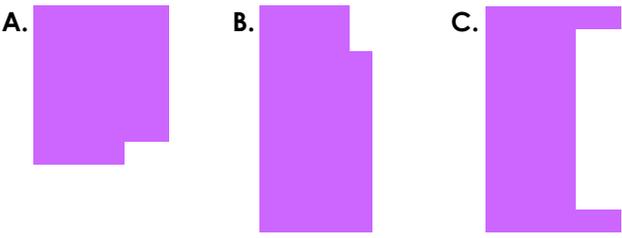


The surface of the shape is covered by \_\_\_ squares.



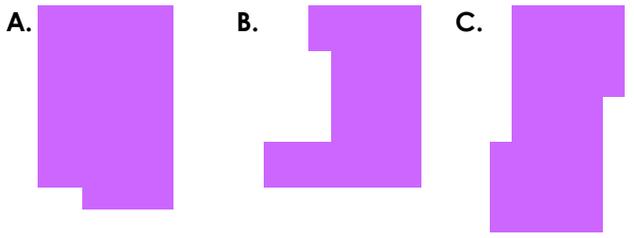
VF

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



VF

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



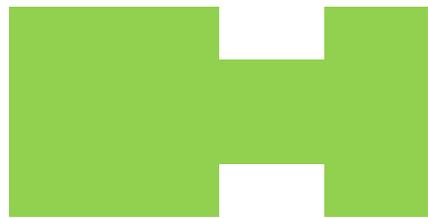
VF

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



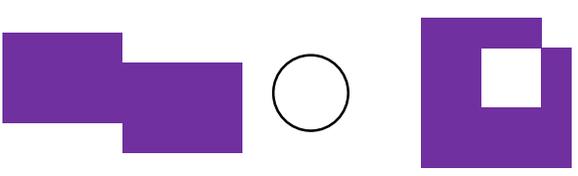
VF

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



VF

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

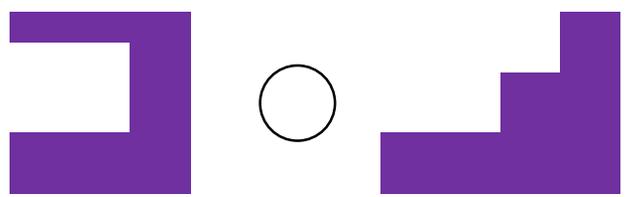


\_\_\_ squares                      \_\_\_ squares



VF

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



\_\_\_ squares                      \_\_\_ squares



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. <