Homework
What is Area?

National Curriculum Objectives:

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

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)
Developing Identify the odd one out by finding the area of squares and rectangles where a square provided as a point of reference is overlaid onto each shape.
Expected Identify the odd one out by finding the area of rectilinear shapes where a shape is provided as a point of reference.
Greater Depth Identify the odd one out by finding the area of rectilinear shapes where a shape is provided as a point of reference and half squares are used.

Questions 2, 5 and 8 (Varied Fluency)
Developing Match the shape to the correct area by finding the area of squares and rectangles where a square provided as a point of reference is overlaid onto each shape.
Expected Match the shape to the correct area by finding the area of rectilinear shapes where a shape is provided as a point of reference.
Greater Depth Match the shape to the correct area by finding the area of rectilinear shapes where a shape is provided as a point of reference and half squares are used.

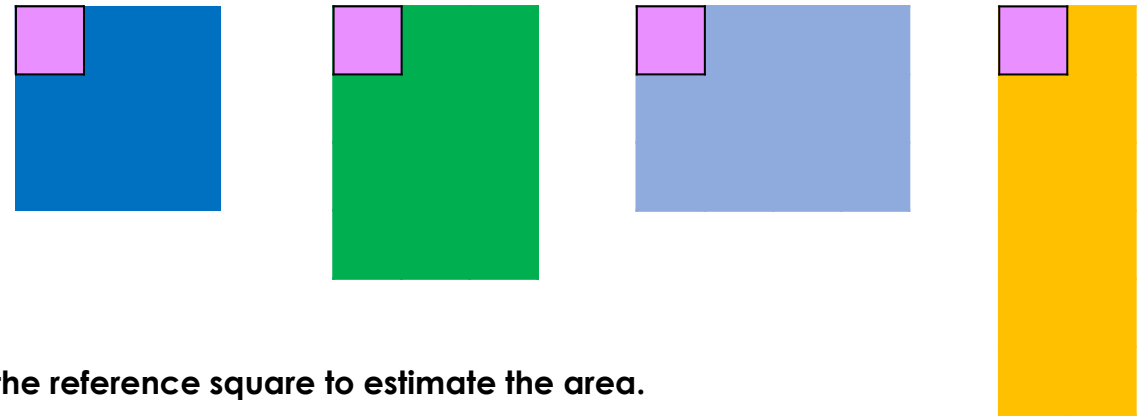
Questions 3, 6 and 9 (Reasoning and Problem Solving)
Developing Explain whether a statement is correct by finding the area of squares and rectangles where a square provided as a point of reference.
Expected Explain whether a statement is correct by finding the area of rectilinear shapes where a shape is provided as a point of reference.
Greater Depth Explain whether a statement is correct by finding the area of rectilinear shapes where half squares are used.

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What is Area?

1. Which shape is the odd one out?

A. **B.** **C.** **D.**



Use the reference square to estimate the area.

D

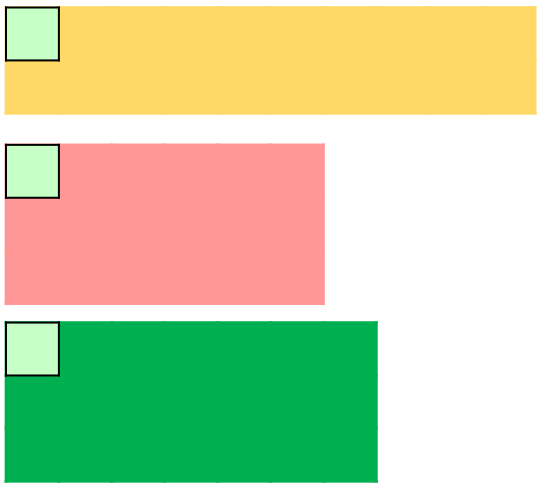
VF
HW/Ext

2. Match the shape to the correct area using the square as a reference.

A.

B.

C.



20 squares

21 squares

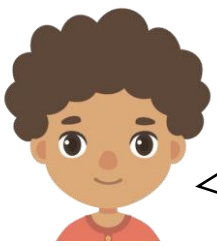
18 squares

D

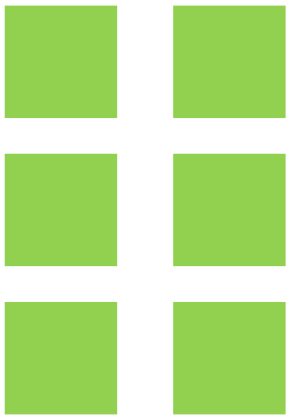
VF
HW/Ext

3. Harees is using 6 squares to make different rectilinear shapes. He uses all 6 squares each time.

He says,



When I rearrange the squares to make a different shape, the area of the shape changes.



Is Harees correct? Explain your answer.

D

RPS
HW/Ext

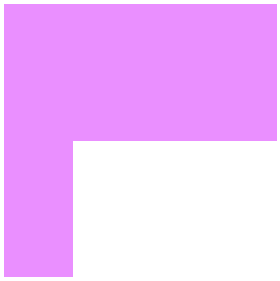
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What is Area?

4. Which shape is the odd one out?

A.

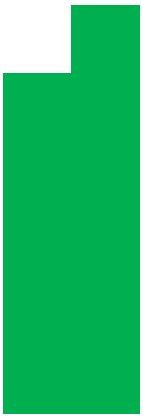
B.



C.



D.



reference square

Use the reference square to estimate the area.

E

VF
HW/Ext

5. Match the shape to the correct area using the square as a reference.

A.

B.



C.



reference square

12 squares

10 squares

11 squares

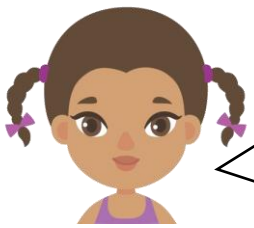
E

VF
HW/Ext

6. Seeta is comparing two rectilinear shapes she has made using squares. She uses a reference square to estimate the area of her shapes.

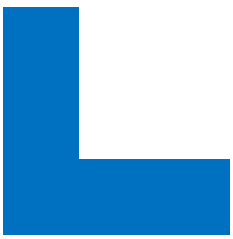
reference square

She says,

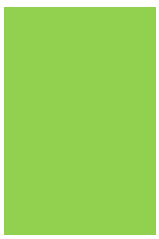


Shape A has a larger area than shape B because it is wider.

A



B



Is Seeta correct? Explain your answer.

E

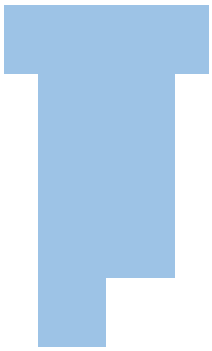
RPS
HW/Ext

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What is Area?

7. Which shape is the odd one out?

A.



B.



C.

D.

reference square

Use the reference square to estimate the area.

VF
HW/Ext

8. Match the shape to the correct area using the square as a reference.

A.



B.



C.



11 squares

12 squares

16 squares

reference square

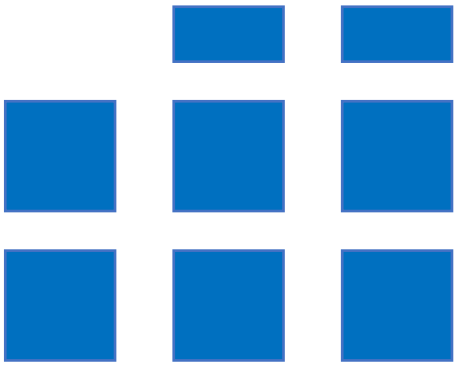
VF
HW/Ext

9. Betty is using 6 squares and 2 half squares to make different shapes. She uses all 6 squares and half squares each time.

She says,



The fewer sides my shape has, the smaller the area.



Is Betty correct? Explain your answer.

RPS
HW/Ext

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Homework
What is Area?

Developing

1. A is the odd one out because it has an area of 9 squares. B, C and D have an area of 12 squares.
2. A. 20 squares; B. 18 squares; C. 21 squares
3. No, Harees is not correct because as long as he uses all six squares, every shape he makes will have an area of 6 squares.

Expected

4. D is the odd one out because it has an area of 11 squares. A, B and C have an area of 10 squares.
5. A. 10 squares; B. 12 squares; C. 11 squares
6. No, Seeta is not correct because shape A has an area of 5 squares whereas shape B has an area of 6 squares. Shape B has a larger area.

Greater Depth

7. D is the odd one out because it has an area of 8 squares. A, B and C have an area of 10 squares.
8. A. 16 squares; B. 11 squares; C. 12 squares
9. No, Betty is not correct because as long as she uses six squares and two half squares, every shape she makes will have an area of 7 squares.

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