Varied Fluency Step 4: Area of Compound Shapes

National Curriculum Objectives:

Mathematics Year 5: (5M7b) <u>Calculate and compare the area of rectangles (including squares)</u>, 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 area of compound shapes involving whole measurements of the same unit (cm or m).

Expected Questions to support finding the area of compound shapes involving whole measurements of different units (mm and cm; cm and m).

Greater Depth Questions to support finding the area of compound shapes involving measurements of different units (mm and cm; cm and m) up to 1 decimal place.

More <u>Year 5 Perimeter and Area</u> resources.

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Varied Fluency – Area of Compound Shapes – Teaching Information

Area of Compound Shapes

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Varied Fluency – Area of Compound Shapes – Year 5 Developing



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Varied Fluency – Area of Compound Shapes – Year 5 Expected



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Varied Fluency – Area of Compound Shapes – Year 5 Greater Depth

Varied Fluency Area of Compound Shapes

<u>Developing</u>

- 1a. A = 16m²; B = 27m² B has the larger area.
- 2a. <mark>63m</mark>²

3a. Various answers, for example:



Accept any compound shape with an area of 12cm² (12 squares).

Expected

4a. A = 33cm²; B = 80cm²

B has the larger area.

5a. 108cm²

6a. Various answers, for example:



Accept any compound shape with an area of 72cm². (8 squares)

Greater Depth

7a. Accept any compound shape made up of three rectangles with an area of 14.4m². For example, a compound shape made of the following rectangles:

1.2cm x 3cm, 1.2cm x 7cm, 1.2cm x 2cm. 8a. 1,452cm²

9a. Various answers, for example:



Accept any compound shape with an area of 40.5cm². (18 squares)

Varied Fluency Area of Compound Shapes

<u>Developing</u>

1b. A = 56cm²; B = 33cm²

A has the larger area.

2b. 28m²

3b. Various answers, for example:



Accept any compound shape with an area of 14cm² (14 squares).

Expected

4b. A = 56cm²; B = 42cm² A has the larger area.

5b. 36cm²

6b. Various answers, for example:



Accept any compound shape with an area of 48cm². (12 squares)

Greater Depth

7b. Accept any compound shape made up of three rectangles with an area of 64.5m². For example, a compound shape made of the following rectangles: 2.5m x 5m, 6m x 6m, 4m x 4m.

2.5m X 5m, 6m X 6m, 4m X 4



9b. Various answers, for example:



Accept any compound shape with an area of 750mm². (12 squares)



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Varied Fluency- Area of Compound Shapes ANSWERS