## Varied Fluency Step 2: Area and Perimeter

## National Curriculum Objectives:

Mathematics Year 6: (6M7a) Recognise that shapes with the same areas can have different perimeters and vice versa
Mathematics Year 6: (6M7c) Recognise when it is possible to use formulae for the area of shapes

## Differentiation:

Developing Questions to support calculating area and perimeter of rectangles and rectilinear shapes. Whole numbers only, using known multiplication facts within $12 \times 12$. Expected Questions to support calculating area and perimeter of rectangles and rectilinear shapes. Includes up to 2-digit by 2-digit whole numbers and some conversion between units of measure. The formula for finding area and perimeter is used.
Greater Depth Questions to support calculating area and perimeter of rectangles and rectilinear shapes. Includes conversion between units of measure and decimal numbers up to 2 dp . The formula for finding area and perimeter is used.

More Year 6 Perimeter, Area and Volume resources.

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## Varied Fluency

 Area and Perimeter
## Developing

1a. 8 cm
2a. $48 \mathrm{ft}^{2}$
3a. A. Area $=63 \mathrm{~cm}^{2}$, Perimeter $=32 \mathrm{~cm}$
B. Area $=48 \mathrm{~cm}^{2}$, Perimeter $=32 \mathrm{~cm}$

4a. A

## Expected

5a. 100 mm
6a. Area $=15 \times 24=360 \mathrm{ft}^{2}$
7a. A. Area $=108 \mathrm{~cm}^{2}$, Perimeter $=42 \mathrm{~cm}$
B. Area $=72 \mathrm{~cm}^{2}$, Perimeter $=36 \mathrm{~cm}$

8a. B

## Greater Depth

9a. 350 cm
10a. Area $=18 \times 3.5=63 \mathrm{~m}^{2}$
11a. A. Area $=49.5 \mathrm{~cm}^{2}$, Perimeter $=29 \mathrm{~cm}$ B. Area $=3.6 \mathrm{~m}^{2}$, Perimeter $=13.2 \mathrm{~m}$ 12a. B

## Developing

1b. 9 cm
2b. $96 \mathrm{~m}^{2}$
3b. A. Area $=84 \mathrm{~m}^{2}$, Perimeter $=38 \mathrm{~m}$
B. Area $=144 \mathrm{~m}^{2}$, Perimeter $=48 \mathrm{~m}$

4b. B

## Expected

5b. 6 cm
6b. Area $=23 \times 19=437 \mathrm{~m}^{2}$
7b. A. Area $=63 \mathrm{~cm}^{2}$, Perimeter $=32 \mathrm{~cm}$
B. Area $=104 \mathrm{~cm}^{2}$, Perimeter $=42 \mathrm{~cm}$

8b. A

## Greater Depth

9b. 120 cm
10b. Area $=19 \times 5.5=104.5 \mathrm{~m}^{2}$
11b. A. Area $=169 \mathrm{~cm}^{2}$, Perimeter $=52 \mathrm{~cm}$
B. Area $=51 \mathrm{~m}^{2}$, Perimeter $=29 \mathrm{~m}$

12b. B

