## Varied Fluency

## Step 4: Perimeter of Rectilinear Shapes

## National Curriculum Objectives:

Mathematics Year 4: (4M7a) Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres

## Differentiation:

Developing Questions to support adding single-digit numbers to calculate the perimeter of simple rectilinear shapes where the measurements of all sides are given and are in cm . Expected Questions to support adding single-digit numbers to calculate the perimeter of rectilinear shapes where not all measurements are given. Measurements are given in cm and mm (no conversion needed).
Greater Depth Questions to support adding single and double-digit numbers to calculate the perimeter of more complex rectilinear shapes where not all measurements are given. Measurements are given in cm and mm (conversion needed).

## More Year 4 Length and Perimeter resources.

Did you like this resource? Don't forget to review it on our website.

## Perimeter of Rectilinear Shapes Perimeter of Rectilinear Shapes

1a. Calculate the perimeter.


1b. Calculate the perimeter.


Not to scale

2a. True or false? The perimeter of the shape is 28 cm .


Not to scale
3a. Which shape has a perimeter of 23 cm ?


4a. Complete the rectilinear shape so that it has a perimeter of 20 cm .


4b. Complete the rectilinear shape so that it has a perimeter of 18 cm .


## Perimeter of Rectilinear Shapes Perimeter of Rectilinear Shapes

5a. Find the missing measurements and calculate the perimeter.


6a. True or false? The perimeter of the shape is 22 mm .


Not to scale
7a. Which shape has a perimeter of 32 cm ?

5b. Find the missing measurements and calculate the perimeter.


6b. True or false? The perimeter of the shape is 46 cm .


Not to scale
7b. Which shape has a perimeter of 34mm?


Not to scale
8b. Draw a compound rectilinear shape with a perimeter of 24 cm .

8a. Draw a compound rectilinear shape with a perimeter of 18 cm .

## Perimeter of Rectilinear Shapes Perimeter of Rectilinear Shapes

9a. Find the missing measurements and calculate the perimeter.


Not to scale
10a. True or false? The perimeter of the shape is 46 cm .


11a. Which shape has a perimeter of


Not to scale
12a. Draw a compound rectilinear shape with a perimeter of 30 cm which has 8 sides.

9 b . Find the missing measurements and calculate the perimeter.

Not to scale

10b. True or false? The perimeter of the shape is 52 cm .


Not to scale
11b. Which shape has a perimeter of 40 cm ?


Not to scale
12b. Draw a compound rectilinear shape with a perimeter of 22 cm which has 10 sides.

## Varied Fluency <br> Perimeter of Rectilinear Shapes

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Perimeter of Rectilinear Shapes

## Developing

1a. 37 cm
2a. False, the perimeter is 26 cm .
3a. A
4a. Any completed rectilinear shape with a perimeter of 20 cm , for example:


## Expected

5a. $A=1 \mathrm{~cm}, \mathrm{~B}=3 \mathrm{~cm} ; 30 \mathrm{~cm}$ perimeter 6 a. False; the perimeter is 34 mm .
7a. A
8a. Any compound rectilinear shape with a perimeter of 18 cm , for example:


## Greater Depth

9a. $A=8 \mathrm{~cm}, B=5 \mathrm{~cm}, C=14 \mathrm{~cm}, D=6 \mathrm{~cm}$; $82 \mathrm{~cm}(820 \mathrm{~mm})$ perimeter.
10a. True
11a. A
12a. Any compound rectilinear shape with a perimeter of 30 cm and 8 sides, for example:


## Developing

1b. 30 cm
2b. True
3b. B
4b. Any completed rectilinear shape with a perimeter of 18 cm , for example:


## Expected

5b. $A=2 \mathrm{~mm}, B=2 \mathrm{~mm}$; perimeter of 30 mm
6 b . False; the perimeter is 44 cm .
7b. A
8b. Any rectilinear shape with a perimeter of 24 cm , for example:


## Greater Depth

9b. $A=5 \mathrm{~cm}, B=3 \mathrm{~cm}, C=4 \mathrm{~cm}, D=6 \mathrm{~cm}$; $60 \mathrm{~cm}(600 \mathrm{~mm})$ perimeter.
10b. False, the perimeter is 46 cm .
11b. A and B
12b. Any compound rectilinear shape with a perimeter of 22 cm and 10 sides, for example:


