Varied Fluency Step 8: Calculate Perimeter

National Curriculum Objectives:

Mathematics Year 3: (3M7) Measure the perimeter of simple 2-D shapes

Differentiation:

Developing Questions to support calculating the perimeter of regular polygons using cm where all the lengths are given.

Expected Questions to support calculating the perimeter of regular polygons, triangles and rectangles using cm or mm, where not all the lengths are given.

Greater Depth Questions to support calculating the perimeter of regular and irregular polygons where some conversions between mm and cm are used and where not all the lengths are given.

More Year 3 Length and Perimeter resources.

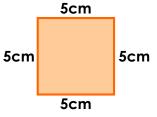
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Calculate Perimeter

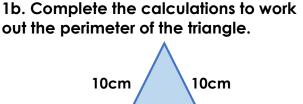
Calculate Perimeter

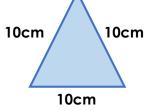
1a. Complete the calculations to work out the perimeter of the square.



Not drawn to scale

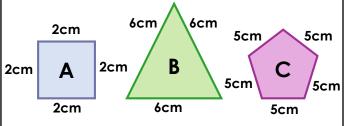
2a. Match the shapes to their perimeters.



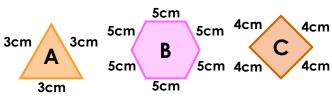


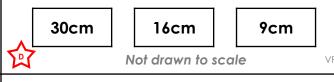
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2b. Match the shapes to their perimeters.

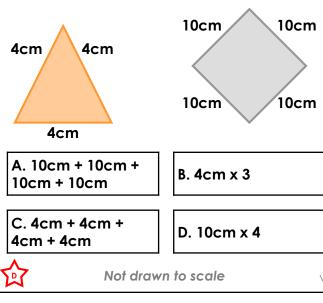


25cm 18cm 8cm
Not drawn to scale

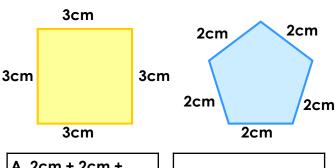




3a. Circle the calculation that does <u>NOT</u> find the perimeter of one of the shapes.



3b. Circle the calculation that does <u>NOT</u> find the perimeter of one of the shapes.



A. 2cm + 2cm + 2cm + 2cm + 2cm

B. 2cm x 4

C. 3cm x 4

D. 3cm + 3cm + 3cm +

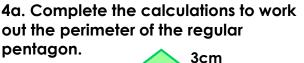


Not drawn to scale

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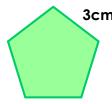
Calculate Perimeter

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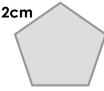
pentagon.

3cm



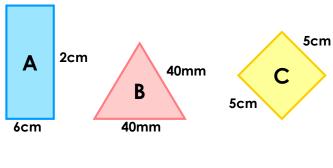
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4b. Complete the calculations to work out the perimeter of the regular pentagon.

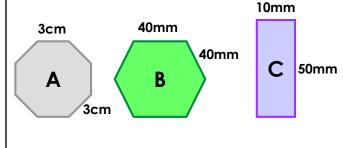


Not drawn to scale

5a. Match the shapes to their perimeters.

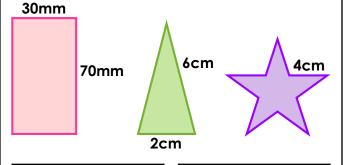


5b. Match the shapes to their perimeters.

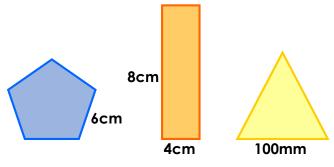




6a. Circle the calculation that does NOT find the perimeter of one of the shapes.



6b. Circle the calculation that does NOT find the perimeter of one of the shapes.



Not drawn to scale

B. 6cm + 2cm + A. 4cm x 10 6cm

> D. 6cm x 2cm x 6cm

C. 8cm + 8cm + 4cm + 4cm

A. 8cm x 4

B. 100mm + 100mm + 100mm

D. 6cm x 5

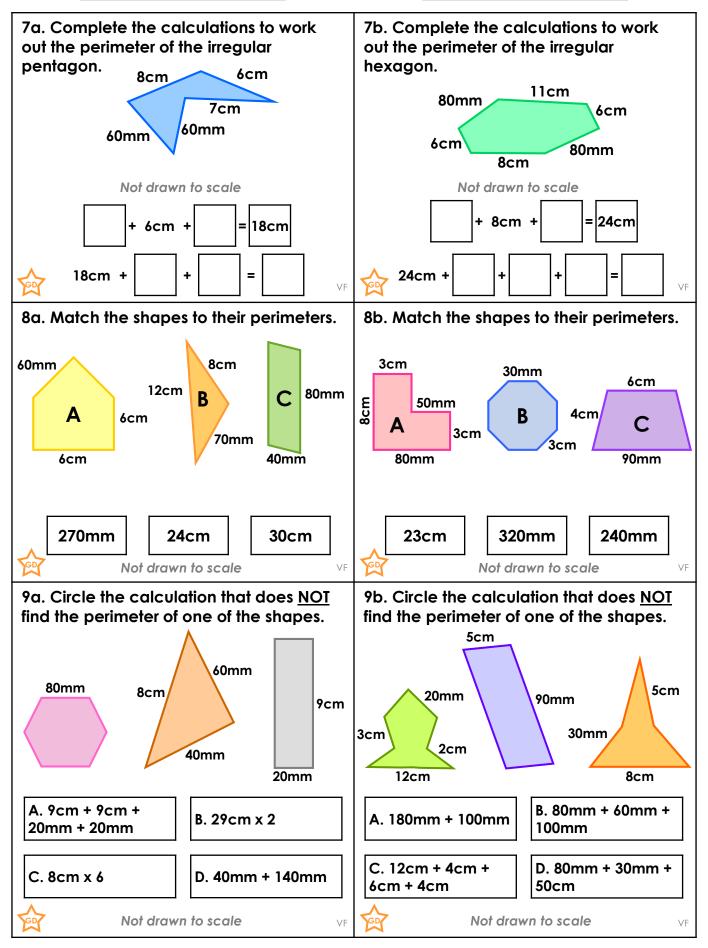
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C. 70mm + 70mm +

30mm + 30mm

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Developing

1a. 20cm, 20cm

2a. A = 8cm, B = 18cm, C = 25cm

3a. C

Expected

4a. 3cm + 3cm + 3cm + 3cm + 3cm = 15cm, 3cm x 5 = 15cm
5a. A = 16cm, B = 120mm, C = 20cm
6a. D

Greater Depth

7a. (in cm) <u>6cm</u> + 6cm + <u>6cm</u> = 18cm, 18cm + <u>7cm</u> + <u>8cm</u> = 33cm (in mm) <u>60mm</u> + 6cm + <u>60mm</u> = 18cm, 18cm + <u>70mm</u> + <u>80mm</u> = 330mm 8a. A = 30cm, B = 270mm, C = 24cm 9a. B

Developing

1b. 30cm, 30cm

2b. A = 9cm, B = 30cm, C = 16cm

3b. B

Expected

4b. <u>2cm</u> + 2cm + <u>2cm</u> + 2cm + <u>2cm</u> = 10cm, <u>2cm</u> x 5 = 10cm 5b. A = 24cm, B = 240mm, C = 120mm 6b. A

Greater Depth

7b. (in cm) 8cm + 8cm + 8cm = 24cm, 24cm + 6cm + 6cm + 11cm = 47cm (in mm) 80mm + 8cm + 80mm = 24cm 24cm + 60mm + 60mm + 110mm = 470mm 8b. A = 320mm, B = 240mm, C = 23cm 9b. D

