Area and Perimeter
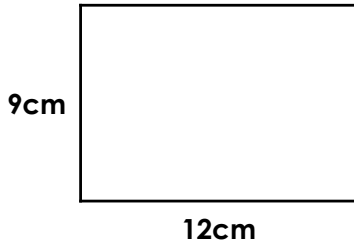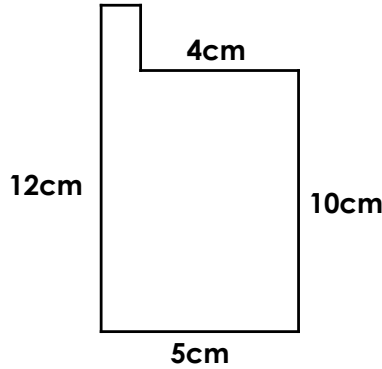
1. Circle the shape has a different total perimeter to the others.
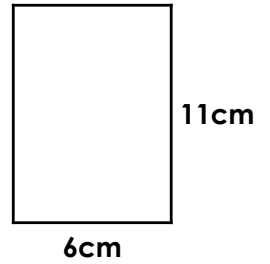
A.

9cm

12cm

B.

4cm

12cm

10cm

5cm

C.

11cm

6cm

Not to scale

2. Calculate the area of the shapes below.

A.

5cm

2cm

3cm

11cm

cm²

9cm

8cm

B.

8cm

9m

12cm

cm²

2cm

3cm

10cm
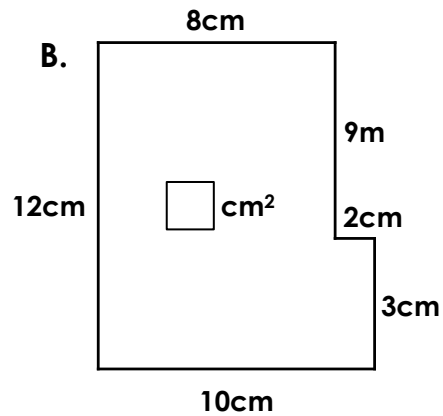
Not to scale

3. The shape below has an area greater than 50m².

Work out the possible perimeter of the shape. Convince me.

Not to scale

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Homework/Extension – Area and Perimeter – Year 6 Developing

Area and Perimeter

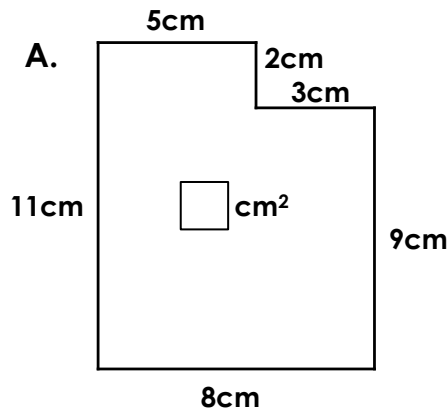**4. Circle the shape has a different total perimeter to the others.**

A.
- 10mm
- 2cm
- 17cm
- 7cm

B.
- 7cm
- 110mm
- 6cm
- 9cm

C.
- 9cm
- 7cm
- 140mm

Not to scale

VF
HW/Ext

5. Using the formulas $p = 2l + 2w$ and $a = w \times l$, find the missing values of the shapes below.

A.
- ☐ cm
- 2cm
- 5cm
- 9cm
- ☐ cm^2
- ☐ mm
- 12cm

B.
- 14cm
- ☐ mm
- 21cm
- ☐ cm^2
- 2cm
- 7cm
- ☐ cm
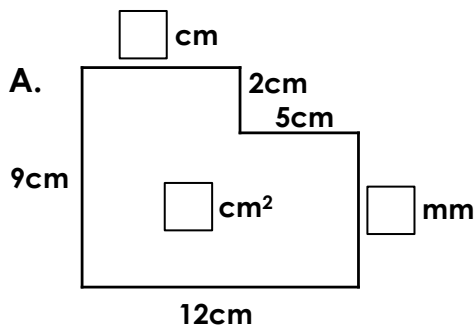
Not to scale

VF
HW/Ext

6. The shape below has an area greater than 100m^2.
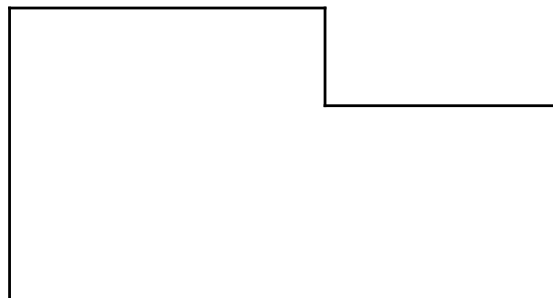
Work out the possible perimeter of the shape. Convince me.

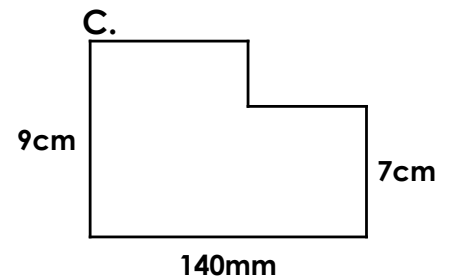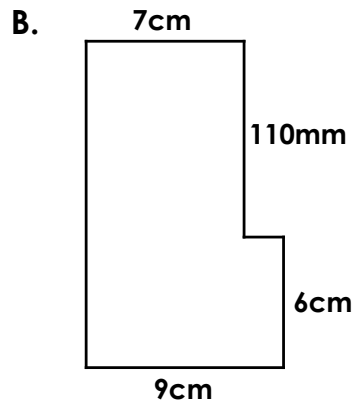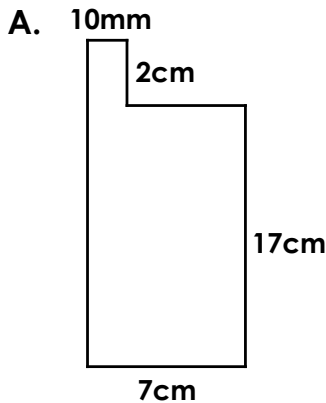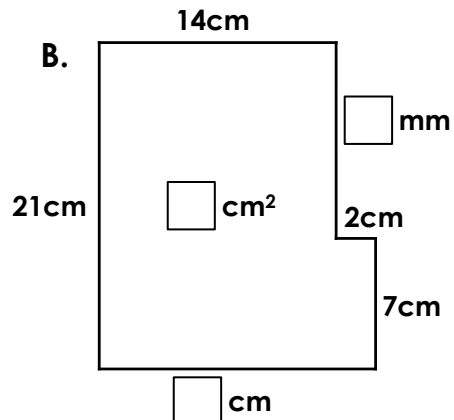*Not to scale*

RPS
HW/Ext

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Homework/Extension – Area and Perimeter – Year 6 Expected

Area and Perimeter

7. Circle the shape has a different total perimeter to the others.

A.
7cm
110mm
60mm
9cm

B.
30mm
19cm
16cm
100mm

C.
50mm
13cm
160mm
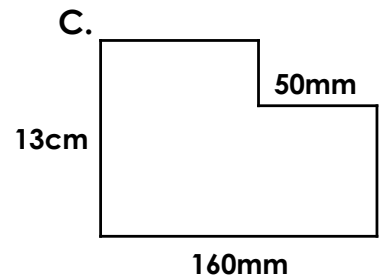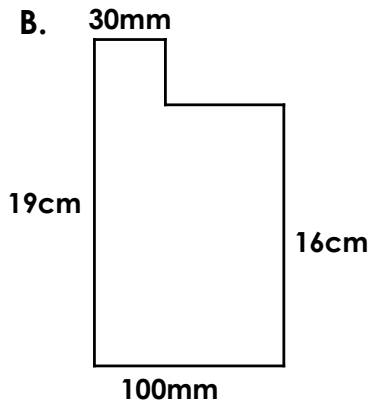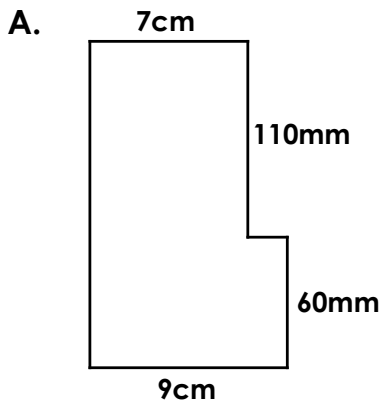
Not to scale

VF
HW/Ext

8. Using the formulas $p = 2l + 2w$ and $a = w \times l$, find the missing values of the shapes below.

A.
☐ mm
2cm
350mm
11cm
☐ cm²
☐ cm
7.5cm

B.
13.5cm
☐ cm
165mm
☐ cm²
2cm
6cm
☐ mm
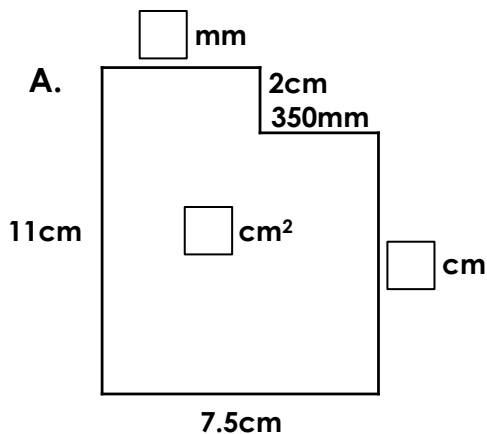
Not to scale

VF
HW/Ext

9. The shape below has an area that is a decimal number greater than 80m².
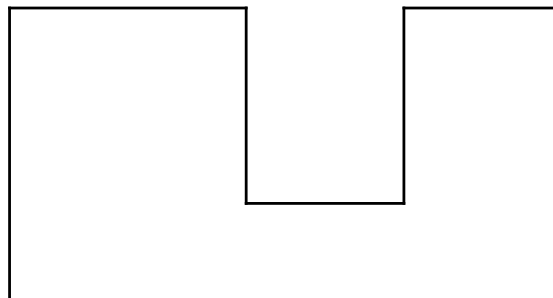
Work out the possible perimeter of the shape. Convince me.
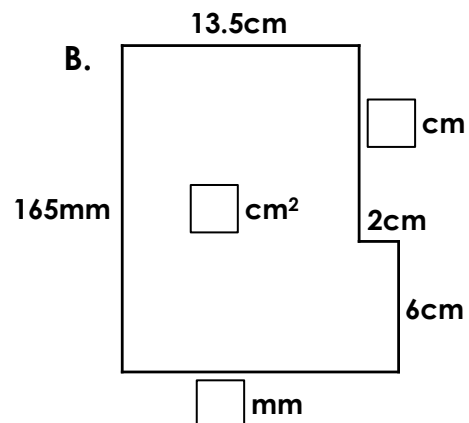
Not to scale

RPS
HW/Ext

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Homework/Extension – Area and Perimeter – Year 6 Greater Depth

Homework/Extension
Area and Perimeter

Developing

1. A

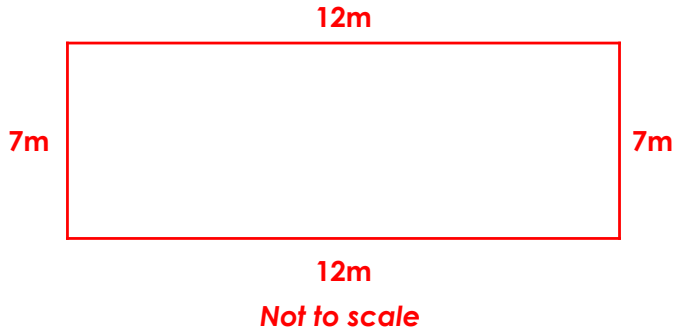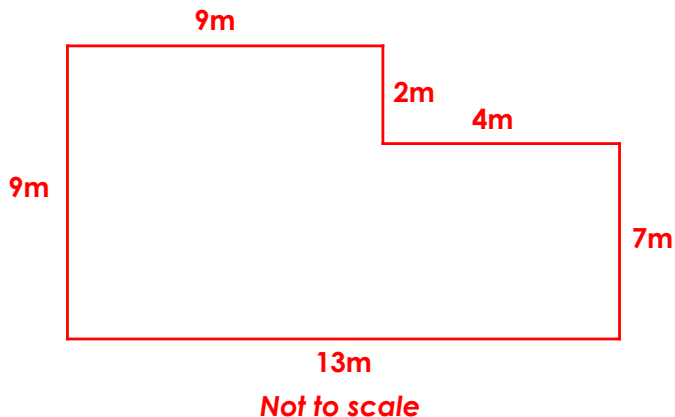**2.** A. 82cm²; B. 102cm²

3. Various possible answers, for example:

The total perimeter could be 38m as shown below. This would result in an area of 84m².

12m

7m   7m

12m

Not to scale

Expected

4. C

5. A. 7cm, 70mm, 98cm²; B. 16cm, 140mm, 308cm²

6. Various possible answers, for example:

The total perimeter could be 44m as shown below. This would result in an area of 109m².

9m

2m

4m

9m

7m

13m

Not to scale

Greater Depth

7. B

8. A. 40mm, 9cm, 75.5cm²; B. 115mm, 10.5cm, 234.75cm²

9. Various possible answers, for example:

The total perimeter could be 65m as shown below. This would result in an area of 124.5m².

7.5m   3m

8m   8m

11m   11m

3m

13.5m

Not to scale

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