Reasoning and Problem Solving – Calculate Perimeter 1

National Curriculum Objectives:

Mathematics Year 3: (3M1a) Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)

Differentiation:

Developing Given the perimeter and one length of a rectangular shape, find the value of the missing length.
Secure Given the perimeter and four lengths of a six-sided rectilinear shape, find the values of two missing lengths.
Mastery Given the perimeter and some lengths of an eight-sided rectilinear shape, find the values of up to three missing lengths.

More Reasoning and Problem Solving Resources.

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

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1. This rectangle has a perimeter of 30cm. What are the missing lengths?

12cm
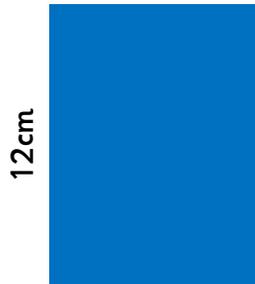
2. This shape has a perimeter of 26cm. What are the missing lengths?

9cm
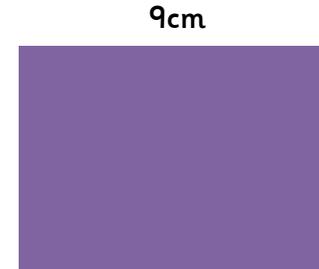
3. This shape has a perimeter of 34cm. What are the missing lengths?

7cm

4. This shape has a perimeter of 38cm. What are the missing lengths?

4cm

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5. This shape has a perimeter of 36cm. What are the missing lengths?

2cm

8cm

6cm

10cm
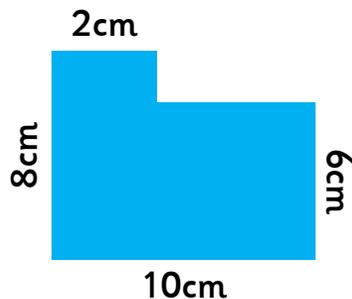
6. This shape has a perimeter of 66cm. What are the missing lengths?

18cm

9cm

6cm

12cm
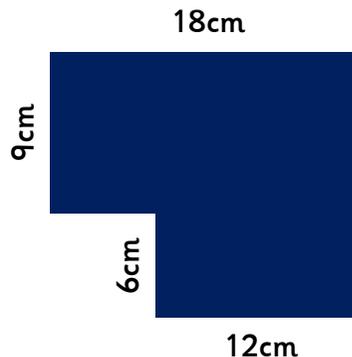
7. This shape has a perimeter of 48cm. What are the missing lengths?

6cm

6cm

10cm

14cm
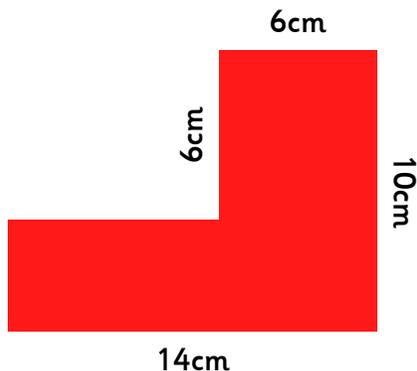
8. This shape has a perimeter of 24cm. What are the missing lengths?

7cm

2cm

3cm

5cm
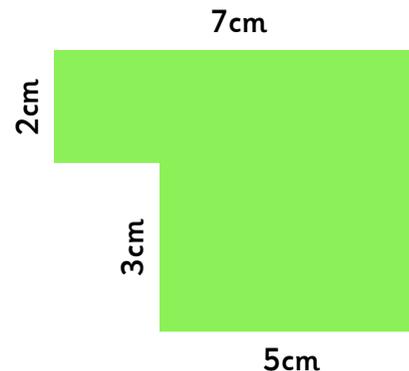
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9. This shape has a perimeter of 90cm. What are the missing lengths?
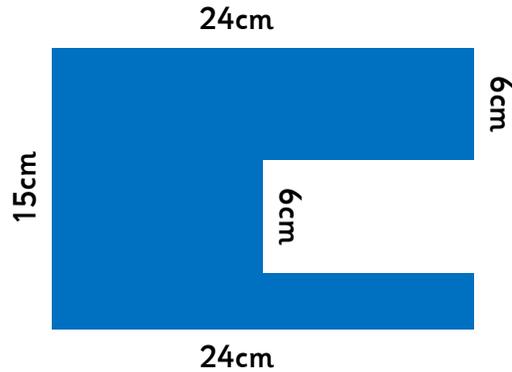
24cm

6cm

15cm

6cm

24cm

10. This shape has a perimeter of 46cm. What are the missing lengths?
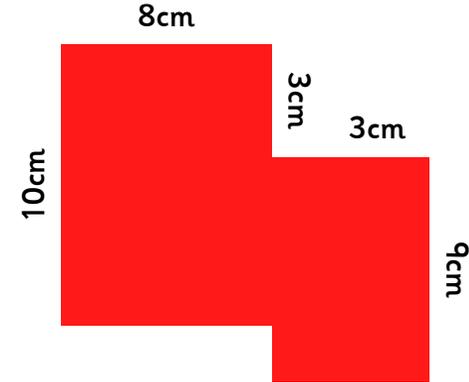
8cm

3cm

3cm

10cm

9cm

11. This shape has a perimeter of 46cm. What are the missing lengths?

15cm

3cm

4cm

5cm

5cm

12. This shape has a perimeter of 66cm. What are the missing lengths?

12cm

7cm

18cm

3cm

5cm

8cm

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Reasoning and Problem Solving – Calculate Perimeter – Year 3 Mastery
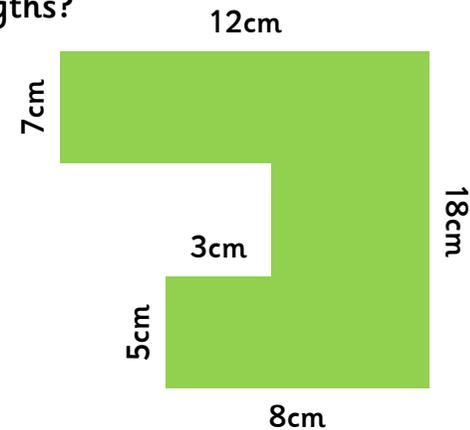
Developing
1. The missing lengths are 3cm each.
2. The missing lengths are 4cm each.
3. The missing lengths are 10cm each.
4. The missing lengths are 15cm each.

Secure
5. The missing lengths are 2cm and 8cm.
6. The missing lengths are 15cm and 6cm.
7. The missing lengths are 4cm and 8cm.
8. The missing lengths are 5cm and 2cm.

Mastery
9. The missing lengths are 6cm, 6cm and 3cm.
10. The missing lengths are 2cm, 3cm and 8cm.
11. The missing lengths are 5cm, 3cm and 6cm.
12. The missing lengths are 6cm and 7cm.