

Boost Free Lessons - Year 7 Maths

Lesson 16: Perimeter

Name: _____ Grade: _____ Date: _____

Worked Example 1

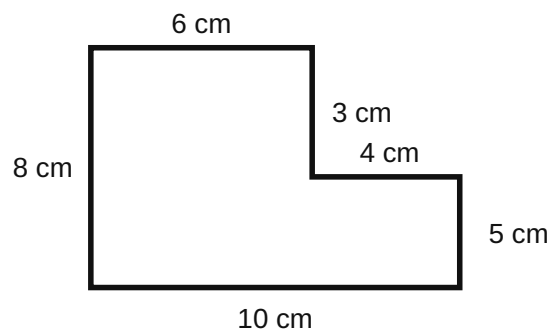
Find the perimeter of a rectangle measuring 12 cm by 7 cm.

1. Perimeter is the total distance around the outside of a shape.
2. A rectangle has two lengths and two widths: $P = 2 \times 12 + 2 \times 7$.
3. $= 24 + 14$

P = 38 cm

Worked Example 2

Find the perimeter of the shape below.



1. Check any missing sides first. The two horizontal sides at the top must add to the bottom: $4 + 6 = 10$ (correct)
2. The two vertical sides on the right must add to the left side: $5 + 3 = 8$ (correct)
3. Now add every side once, going around the shape: $10 + 5 + 4 + 3 + 6 + 8$.

P = 36 cm

Remember: Perimeter is a length, so it is measured in single units (cm, m). Count every side exactly once, and look for missing sides you can work out.



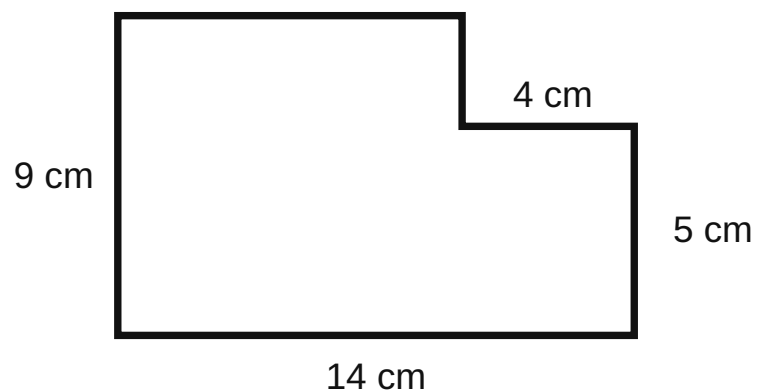
Question 1: Find the perimeter of each shape.

1. A square with side 9 cm
2. A rectangle 15 m by 6 m
3. A triangle with sides 7 cm, 8 cm and 10 cm
4. A rectangle 2.5 m by 4 m
5. A regular pentagon with side 12 mm
6. A square with side 25 cm
7. A rectangle 40 cm by 35 cm
8. A regular hexagon with side 9 m



Question 2: Answer the following questions.

1. A square has a perimeter of 48 cm. Find its side length.
2. A rectangle has a perimeter of 30 m and a width of 6 m. Find its length.
3. A regular octagon has a perimeter of 72 cm. Find its side length.
4. A rectangle measures 1.2 m by 80 cm. Find its perimeter in centimetres.
5. An equilateral triangle has a perimeter of 27 cm. Find its side length.
6. Find the perimeter of the shape below.



Question 3: Answer the following questions.

1. A rectangular yard measures 18 m by 11 m and needs a fence around it. How many metres of fencing are needed?
2. Fencing costs \$24 per metre. Using your answer above, how much would it cost to fence the yard?
3. A square garden bed has a perimeter of 36 m. Find the length of one side.
4. A photo frame measures 30 cm by 20 cm. Ribbon is glued around the outside edge. How much ribbon is needed?
5. A rectangle has a perimeter of 26 cm. Its length is 3 cm more than its width. Find the length and the width.





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Answers : Perimeter

Question 1

1. 36 cm
2. 42 m
3. 25 cm
4. 13 m
5. 60 mm
6. 100 cm
7. 150 cm
8. 54 m

Question 2

1. 12 cm
2. 9 m
3. 9 cm
4. 400 cm
5. 9 cm
6. 46 cm (the notch does not change the perimeter, because the two cut sides replace the two they removed)

Question 3

1. 58 m
2. \$1 392
3. 9 m
4. 100 cm
5. Width 5 cm, length 8 cm

