

# Perimeter

Name:

Date:

**INQUIRY**

The ancient Nanjing City Wall (Ming City Wall) is ~35 km long. How would engineers have measured this without modern tools?

Discuss with your partner. Write your initial ideas below:

## Key Vocabulary

Term	Definition
Perimeter	Total distance around the outside of a 2D shape.
Regular shape	All sides are equal (e.g. square, equilateral triangle).

## Part A — Basic Perimeter

1. Find the perimeter of a square with side length 8 cm. [1 marks]

Show your working:

2. Find the perimeter of a rectangle with length 12 cm and width 5 cm. [2 marks]

Show your working:

3. A triangle has sides 7 cm, 9 cm, and 11 cm. Find its perimeter. [1 marks]

Show your working:

4. A regular hexagon has side length 6 cm. Find its perimeter. [2 marks]

Show your working:

## Part B — Finding Missing Sides

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5. A rectangle has perimeter 34 cm. Length is 10 cm. Find the width. [2 marks]

Show your working:

6. An equilateral triangle has perimeter 27 cm. Find the side length. [1 marks]

Show your working:

7. An L-shaped room has perimeter 28 m. Five sides: 3, 5, 4, 2, 7 m. Find the missing side. [3 marks]

Show your working:

## Part C — Real-World Problems

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**8.** NIS football field: 100 m × 64 m. A student runs 3 laps. Total distance? [3 marks]

Show your working:

**9.** The DMZ between North and South Korea: ~250 km long, 4 km wide. Calculate the perimeter. [2 marks]

Show your working:

**10.** A section of the Berlin Wall was 155 km long, enclosing roughly 20 km × 10 km. What was the approximate perimeter of West Berlin? [2 marks]

Show your working: