

Grade 3 - Perimeter - Test

Common Core 3.MD.D.8 · maths-pdf.fr/en/

Name: _____ Class: _____ Date: ____/____/____

This **perimeter test** for 3rd Grade covers perimeter (Common Core 3.MD.D.8), with a free PDF to print.

This test has 9 questions worth 20 points in total. It covers the perimeter of polygons, missing side lengths, and rectangles with the same perimeter or the same area (3.MD.D.8). Show all work and write units. You have 45 minutes.

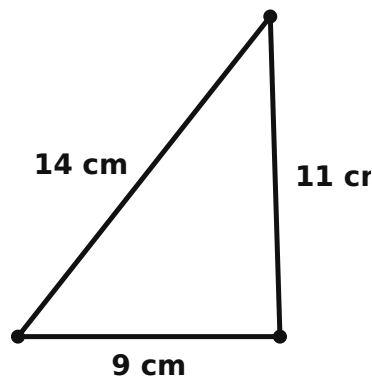
Time and points

About this test

- Grade: Grade 3
- Chapter: Perimeter
- Standards: 3.MD.D.8
- Time: 45 minutes
- Total: 20 points

Perimeter test: questions

Question 1 - Triangle and hexagon [2 pts]



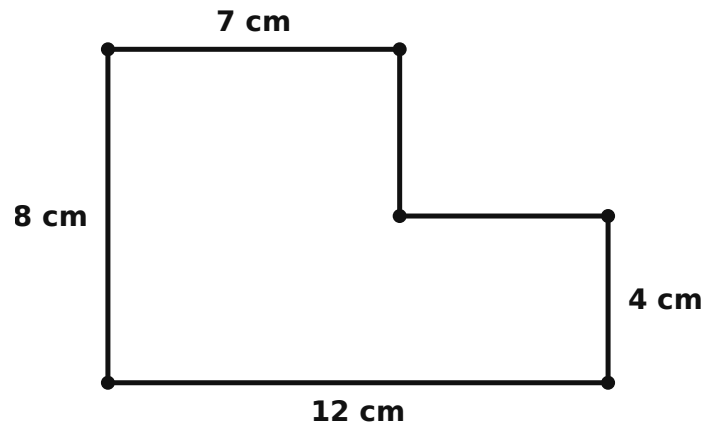
Triangle.

- a. Find the perimeter of the triangle. (1 point)
- b. A regular hexagon has sides of 6 inches. Find its perimeter. (1 point)

Question 2 - Rectangle and square [2 pts]

- a. A rectangle is 15 meters long and 6 meters wide. Find its perimeter. (1 point)
- b. A square has sides of 13 feet. Find its perimeter. (1 point)

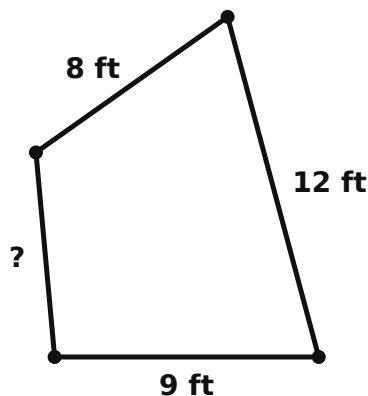
Question 3 - Perimeter with right angles [3 pts]



All corners are right angles.

Find the perimeter of the figure. Show the work.

Question 4 - Missing side [2 pts]



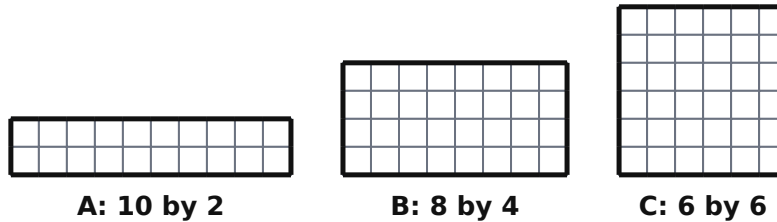
Perimeter 36 feet.

The perimeter of the quadrilateral is 36 feet. Find the length of the missing side.

Question 5 - Missing length [2 pts]

A rectangle has a perimeter of 44 inches and a width of 9 inches. Find its length.

Question 6 - Same perimeter [3 pts]



Each rectangle has a perimeter of 24 units.

- Find the area of each rectangle. (2 points)
- Which rectangle has the greatest area? (1 point)

Question 7 - Same area [2 pts]

Three rectangles each have an area of 16 square units. Their sides are 1 by 16, 2 by 8, and 4 by 4. Find the perimeter of each. Which has the smallest perimeter?

Question 8 - Garden fence cost [2 pts]

Sofia's garden is a rectangle 12 feet long and 9 feet wide. She puts fence all the way around it. Fence costs \$4 for each foot. Find the total cost.

Question 9 - Explain [2 pts]

Jamal says that two rectangles with the same perimeter must have the same area. Is he correct? Use two rectangles to explain.

Key facts behind this perimeter test

Key facts

- Perimeter is the sum of the lengths of all the sides of a polygon.
- It is measured in plain units, such as inches, feet, or centimeters.
- A rectangle has two lengths and two widths: $P = 2 \times (\text{length} + \text{width})$.
- To find a missing side, subtract the known sides from the perimeter.
- Rectangles with the same perimeter can have different areas.

How to use this perimeter test

Time yourself: the test is designed for an average student in 45 minutes. Answer the questions you are sure of first, then come back to the longer ones and check your units.