

Grade 3 · Perimeter · Test

Common Core 3.MD.D.8 · mathovore.fr

Name: _____ Date: ____/____/____ Score: _____

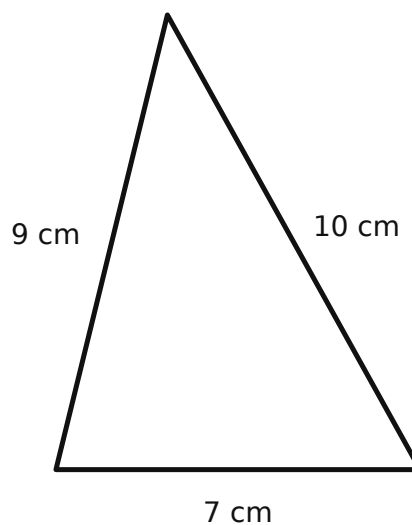
This test has 9 questions worth 20 points in all. It covers perimeter of polygons, unknown side lengths, and rectangles with the same perimeter or the same area. Students should take about 45 minutes and show their work.

Test information

- **Grade:** Grade 3
- **Chapter:** Perimeter
- **Common Core:** 3.MD.D.8
- **Time:** 45 minutes
- **Total:** 20 points (Question 1: 2 pts; Question 2: 2 pts; Question 3: 2 pts; Question 4: 2 pts; Question 5: 2 pts; Question 6: 3 pts; Question 7: 2 pts; Question 8: 3 pts; Question 9: 2 pts)

Question 1: Perimeter of a triangle (2 points)

Find the perimeter of the triangle.



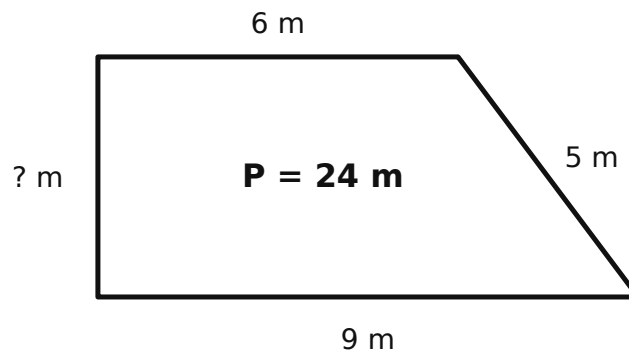
A triangle.

Question 2: Rectangle and square (2 points)

- a. A rectangle is 13 feet long and 8 feet wide. Find its perimeter. (1 point)
- b. A square has sides of 9 feet. Find its perimeter. (1 point)

Question 3: Unknown side length (2 points)

The perimeter of the quadrilateral is 24 meters. Find the length of the unknown side.



A quadrilateral with one unknown side.

Question 4: Missing width (2 points)

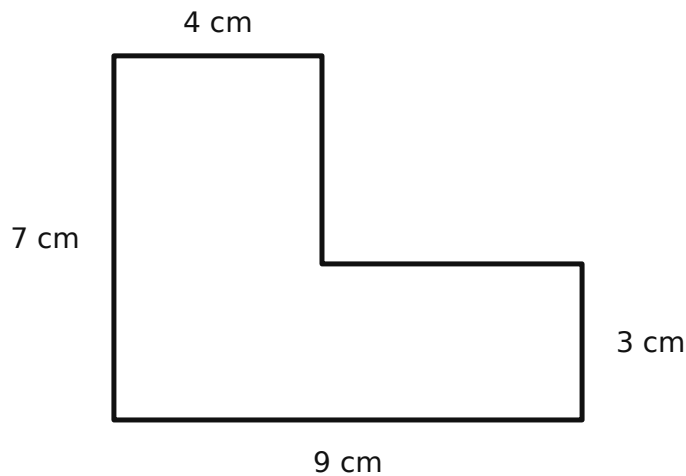
A rectangle has a perimeter of 28 inches and a length of 9 inches. Find its width.

Question 5: Fence sections (2 points)

Sofia puts a fence around a rectangular garden that is 18 feet long and 12 feet wide. Fence is sold in sections that are each 10 feet long. How many sections does she need?

Question 6: Perimeter of an L-shape (3 points)

Find the perimeter of the figure. All corners are square corners.



An L-shaped figure.

Show your work.

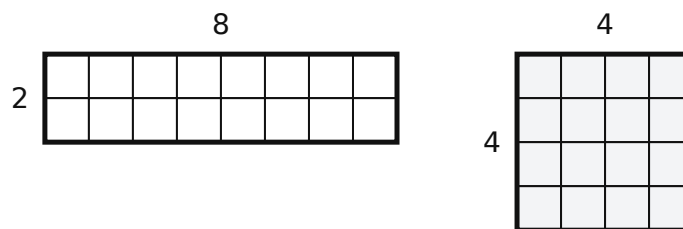
Question 7: Same perimeter (2 points)

Rectangle A is 9 cm by 3 cm. Rectangle B is 6 cm by 6 cm.

- Show that the two rectangles have the same perimeter. (1 point)
- Which rectangle has the greater area? (1 point)

Question 8: Same area (3 points)

Both rectangles have an area of 16 square units.



Two rectangles drawn on unit squares.

- Find the perimeter of each rectangle. (2 points)
- Which rectangle has the shorter distance around? (1 point)

Question 9: Ribbon for two cards (2 points)

Sofia glues ribbon around the edge of a rectangular card that is 7 inches by 5 inches. She also glues ribbon around a square card with sides of 8 inches. How many inches of ribbon does she

use in all?