

Grade 4 · Area and Perimeter of Rectangles · Test

Common Core 4.MD.A.3 · mathovore.fr

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

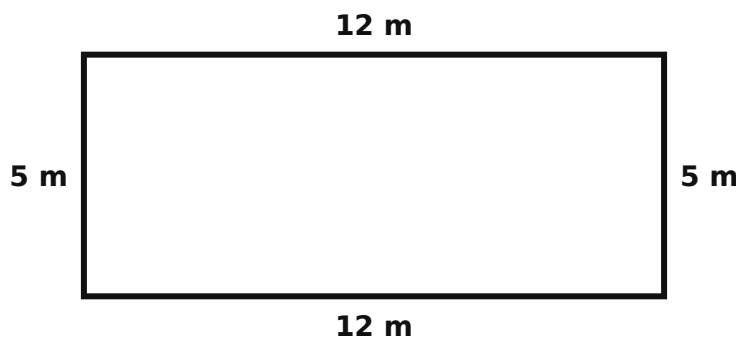
This test has 8 questions worth 20 points. Students find area and perimeter, calculate missing sides, and solve real-world problems about fences, floors, and playgrounds. Plan about 45 minutes and show all work with correct units.

Test information

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

Question 1: Rectangle area and perimeter (2 points)

A rectangle is 12 meters long and 5 meters wide.



Rectangle 12 m by 5 m.

- Find the area. (1 point)
- Find the perimeter. (1 point)

Question 2: Square (2 points)

A square has a side length of 8 feet.

- Find the area. (1 point)
- Find the perimeter. (1 point)

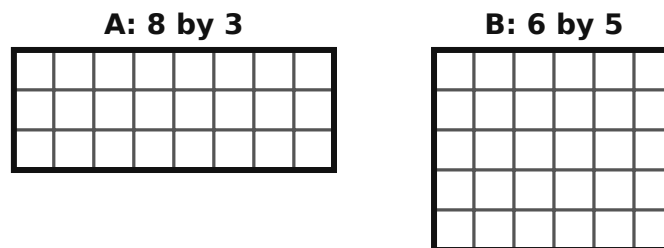
Question 3: Missing sides (3 points)

Find the missing side of each rectangle.

- The area is 72 square centimeters and the length is 9 centimeters. Find the width. (1 point)
- The perimeter is 38 inches and the length is 12 inches. Find the width. (1 point)
- The area is 90 square feet and the length is 15 feet. Find the width. (1 point)

Question 4: Two rectangles on a grid (3 points)

Rectangles A and B are drawn on a grid. Each square is 1 square unit.



Rectangles A and B.

- Find the area of each rectangle. (1 point)
- Find the perimeter of each rectangle. (1 point)
- Which rectangle has the greater area, and by how many square units? (1 point)

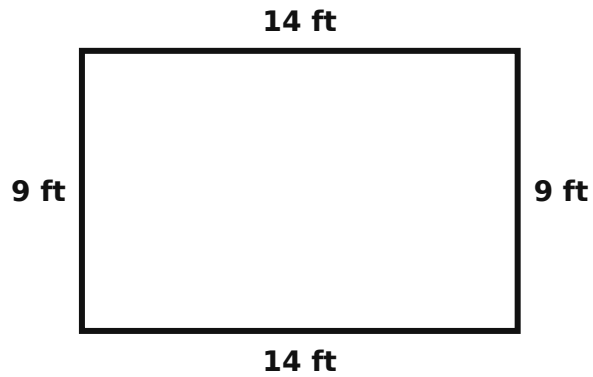
Question 5: Ice rink laps (2 points)

An ice rink is a rectangle 60 feet long and 40 feet wide. Priya skates once around the edge.

- How many feet does she skate in one lap? (1 point)
- How many feet does she skate in 3 laps? (1 point)

Question 6: Garden and fence (3 points)

Aisha's garden is shown. Fence costs \$4 per foot.



Aisha's garden.

- a. Find the area of the garden. *(1 point)*
- b. Find the length of fence needed to go around it. *(1 point)*
- c. Find the cost of the fence. *(1 point)*

Question 7: Living room (2 points)

A rectangular living room has a floor area of 96 square feet and a width of 8 feet.

- a. Find the length of the room. *(1 point)*
- b. Find the perimeter of the room. *(1 point)*

Question 8: Length twice the width (3 points)

A rectangular playground has a perimeter of 54 meters. Its length is twice its width.

- a. Find the width. *(1 point)*
- b. Find the length. *(1 point)*
- c. Find the area. *(1 point)*