

Grade 3 - Perimeter - Quiz

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

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

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

Take this 10-question quiz on perimeter. Each question has one correct answer. It covers adding sides, regular polygons, missing side lengths, and rectangles with the same perimeter. Look carefully at each picture before you choose.

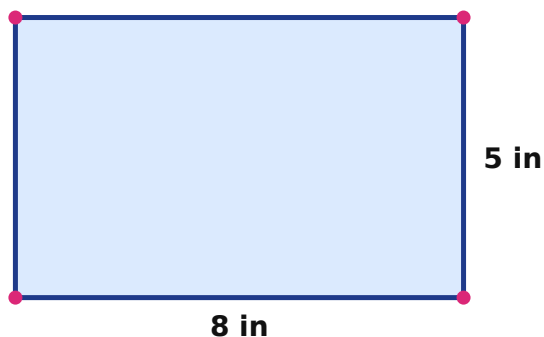
Grade 3 · Common Core State Standards: **3.MD.D.8**

Perimeter quiz: 10 questions

Questions

Question 1

What is the perimeter of the rectangle?



- A. 13 inches
- B. 18 inches
- C. 26 inches
- D. 40 inches

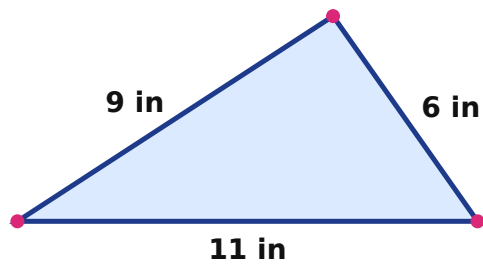
Question 2

What does perimeter measure?

- A. The distance around a shape
- B. The space inside a shape
- C. The number of corners
- D. The longest side

Question 3

A triangular sail has the side lengths shown. What is the total length of its edges?



- A. 15 inches
- B. 17 inches
- C. 20 inches
- D. 26 inches

Question 4

A square has a perimeter of 28 centimeters. How long is each side?

- A. 4 centimeters
- B. 7 centimeters
- C. 14 centimeters
- D. 21 centimeters

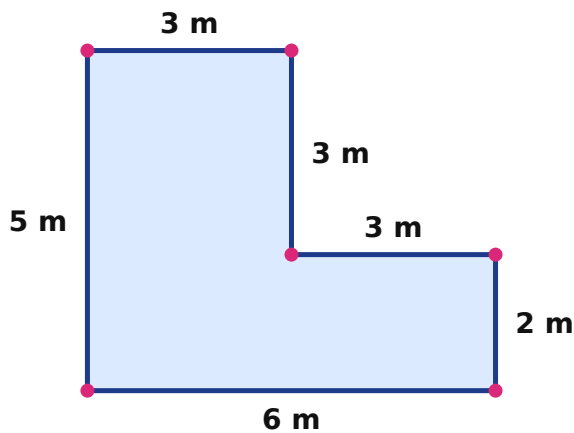
Question 5

A rectangle has a perimeter of 34 feet and a length of 10 feet. What is its width?

- A. 14 feet
- B. 7 feet
- C. 17 feet
- D. 24 feet

Question 6

What is the perimeter of the figure?



- A. 17 meters
- B. 19 meters
- C. 30 meters
- D. 22 meters

Question 7

Which pair of rectangles has the same perimeter but different areas?

- A. 3 by 6 and 2 by 8
- B. 2 by 7 and 4 by 5
- C. 4 by 5 and 2 by 10
- D. 1 by 9 and 3 by 3

Question 8

Liam rides his bike once around a rectangular field that is 150 yards long and 90 yards wide. How far does he ride?

- A. 480 yards
- B. 240 yards
- C. 330 yards
- D. 13,500 yards

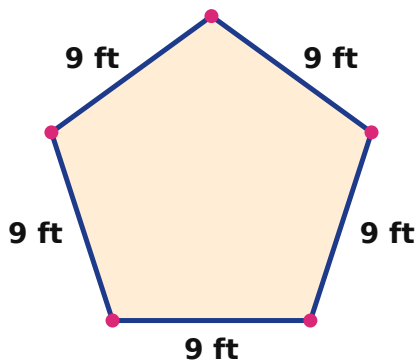
Question 9

Sixteen square tiles make a rectangle. Which rectangle has the smallest perimeter?

- A. 1 by 16
- B. 2 by 8
- C. 4 by 4
- D. 8 by 2

Question 10

What is the perimeter of the regular pentagon?



- A. 45 feet
- B. 14 feet
- C. 36 feet
- D. 81 feet

Answers

1. **C** – Add all four sides: $8 + 5 + 8 + 5 = 26$. Adding only two sides gives 13, and 40 is the area.
2. **A** – Perimeter is the total length of the boundary. The space inside is the area.
3. **D** – Add all three sides: $6 + 9 + 11 = 26$. Leaving out a side gives 15, 17, or 20.
4. **B** – A square has 4 equal sides, and 28 divided by 4 is 7. Dividing by 2 gives 14, which is a width plus a length.
5. **B** – Two lengths make 20, and $34 - 20 = 14$ is left for two widths, so one width is 7. Subtracting only one length gives 24.
6. **D** – Add all six sides: $6 + 2 + 3 + 3 + 3 + 5 = 22$. Skipping a side gives 19 or 17, and 30 is 6 times 5.
7. **B** – Both 2 by 7 and 4 by 5 have a perimeter of 18, and their areas are 14 and 20. In the other pairs, the perimeters are different.
8. **A** – Perimeter is 2 times $(150 + 90)$, which is 480. Adding two sides gives 240, and 13,500 is the area.
9. **C** – The perimeters are 16 for 4 by 4, 34 for 1 by 16, and 20 for both 2 by 8 and 8 by 2. The shape closest to a square has the smallest.
10. **A** – A regular pentagon has 5 equal sides, and 5 times 9 is 45. Using 4 sides gives 36.

Remember

Remember

- 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 quiz

Answer each question, read the explanation that appears, and keep track of your score. A score of 8 out of 10 or more means you are ready for the test.

Download the perimeter quiz as a PDF with the button below and keep it with your notes.

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