

Perimeter and Area Word Problems

Grades 5–6 • Increasing Difficulty

Directions

Read each word problem carefully. Use the information given to find the correct perimeter or area. Show all steps clearly and write your final answer.

1. Garden Fence

A rectangular garden is 9 meters long and 5 meters wide. How many meters of fencing are needed to surround the garden?

2. Classroom Rug

A classroom rug measures 6 meters by 4 meters. What is the total area of the rug?

3. Picture Frame

A picture frame is 10 inches long and 8 inches wide. What is the distance around the frame?

4. Playground Space

A rectangular playground has a length of 18 meters and a width of 12 meters. How many square meters does the playground cover?

5. Dog Pen

A dog pen is rectangular. Its length is 11 meters and its width is 7 meters. How much fencing is needed to enclose the pen?

6. Garden Beds

Each garden bed is 4 meters long and 3 meters wide. There are 6 identical garden beds. What is the total area of all the garden beds combined?

7. Hallway Runner

A hallway runner covers a space that is 12 feet long and 3 feet wide. How many square feet of floor does the runner cover?

8. School Courtyard

A rectangular school courtyard is 25 meters long and 14 meters wide. A 14-square-meter fountain sits in the middle and does not need paving. How many square meters of paving are needed?

9. Bedroom Flooring

A bedroom and closet area together measure 20 feet long and 15 feet wide. The closet takes up 30 square feet and will not be carpeted. How many square feet of carpet are needed for the bedroom area?

10. Community Garden Fence

A community garden is 30 meters long and 18 meters wide. An entrance gate takes up 4 meters along one side and does not need fencing. How many meters of fencing are needed to enclose the garden?

Answer Key

Step-by-step solutions

Solutions

1. Perimeter = $2 \times (9 + 5) = 28$ meters.
2. Area = $6 \times 4 = 24$ square meters.
3. Perimeter = $2 \times (10 + 8) = 36$ inches.
4. Area = $18 \times 12 = 216$ square meters.
5. Perimeter = $2 \times (11 + 7) = 36$ meters.
6. Area of one bed = 12 square meters. $12 \times 6 = 72$ square meters.
7. Area = $12 \times 3 = 36$ square feet.
8. Total area = $25 \times 14 = 350$. Subtract fountain: $350 - 14 = 336$ square meters.
9. Total area = $20 \times 15 = 300$. Subtract closet: $300 - 30 = 270$ square feet.
10. Total perimeter = $2 \times (30 + 18) = 96$. Subtract gate: $96 - 4 = 92$ meters.