

Unit 7: Two-Dimensional Shapes and Perimeter

ADVANCED • SET 3

Name: _____ Date: _____

Solve each problem and write only your final answer with its unit — show your work on scrap paper.

1. A rectangular dog run has a perimeter of 74 m. One of its sides is 23 m long. How long is the side next to it?

Answer: _____

2. A rectangular sheet of cardboard has an area of 96 square cm. One side is 8 cm long. What is the perimeter of the cardboard?

Answer: _____

3. A classroom floor is a rectangle 20 ft long and 15 ft wide. A rug 12 ft by 7 ft is placed on it. How many square feet of the floor are NOT covered by the rug?

Answer: _____

4. A square garden has an area of 144 square m. What is the perimeter of the garden?

Answer: _____

5. A square poster has a perimeter of 68 cm. Two of these posters are taped side by side to make one long rectangle. What is the perimeter of that rectangle?

Answer: _____

6. Mr. Diaz fences a rectangular chicken yard that is 26 m long and 19 m wide. He leaves a 4 m gate with no fence. Fencing costs \$6 for each meter. How much does the fencing cost?

Answer: _____

7. Rectangle A is 5 cm by 13 cm. Rectangle B is 8 cm by 10 cm. Both have the same perimeter. How much bigger is the area of Rectangle B than the area of Rectangle A?

Answer: _____

8. A hall floor is a rectangle 21 ft long and 15 ft wide. It is covered with square tiles that are 3 ft on each side, with no gaps. How many tiles are used?

Answer: _____

9. A quilt patch is a quadrilateral with a perimeter of 155 cm. Three of its sides measure 37 cm, 48 cm, and 29 cm. How long is the fourth side?

Answer: _____

10. A rectangular flag has a length that is 3 times its width. The perimeter of the flag is 64 cm. What is the length of the flag?

Answer: _____

11. Ana glues ribbon all the way around the edge of a rectangular banner that is 30 inches long and 18 inches wide. Ribbon is sold in pieces 24 inches long. How many pieces does she need?

Answer: _____

12. A vegetable garden is made of two parts joined together: a square part with sides of 11 m, and a rectangular part that is 11 m by 7 m. What is the total area of the garden?

Answer: _____