



Geometry

Grade 5

Area and perimeter

Telling the two apart, and the formulas for squares, rectangles and triangles.

WHAT'S INSIDE

- 10 exercises with space to write
- Full answer key on the last page
- US Letter, black and white, one page per section



Area and perimeter

Grade 5

Name: _____

Date: _____

Remember

Perimeter is the distance around a shape and is measured in inches or feet. Area is the surface a shape covers and is measured in square inches or square feet. Area of a rectangle = $\text{base} \times \text{height}$. Area of a triangle = $\text{base} \times \text{height} \div 2$.

1. Find the area of a square with 5-inch sides.

2. Find the area of a rectangle 8 in by 3 in.

3. Find the perimeter of that same rectangle.

4. A square has an area of 36 sq in. How long is each side?

5. Find the area of a triangle with a base of 6 in and a height of 4 in.

6. A classroom floor is 24 ft by 20 ft. How many square feet of carpet does it need?

7. Two rectangles both have a perimeter of 16 in: one is 6 by 2, the other 5 by 3. Which has the greater area?

8. A rectangular rug is 9 ft long and has an area of 54 sq ft. How wide is it?



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9. Explain in one sentence when you would need perimeter and when you would need area.

10. A garden bed is 12 ft by 4 ft. You want a fence around it and soil to fill it. Give both numbers with their units.



Area and perimeter

1. $5 \times 5 = 25$ square inches.
2. $8 \times 3 = 24$ square inches.
3. $2 \times (8 + 3) = 22$ inches.
4. 6 inches, because $6 \times 6 = 36$.
5. $6 \times 4 \div 2 = 12$ square inches.
6. $24 \times 20 = 480$ square feet.
7. $5 \times 3 = 15$ sq in beats $6 \times 2 = 12$ sq in, so the 5-by-3 rectangle.
8. $54 \div 9 = 6$ feet.
9. Perimeter for anything that goes around the edge, like a fence or a frame; area for anything that covers the surface, like paint or carpet.
10. Fence: perimeter = $2 \times (12 + 4) = 32$ feet. Soil: area = $12 \times 4 = 48$ square feet.