

# Calculating Perimeter of Polygons

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Name: \_\_\_\_\_

Date: \_\_\_\_\_

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**Remember:** Perimeter is the total distance around a shape. Add all the side lengths together.

## Part A: Regular Polygons

*All sides are equal length in regular polygons.*

1. Regular pentagon with side length 7 cm      Perimeter = \_\_\_\_\_
2. Regular hexagon with side length 9 m      Perimeter = \_\_\_\_\_
3. Regular octagon with side length 5.5 cm      Perimeter = \_\_\_\_\_
4. Square with side length 12 mm      Perimeter = \_\_\_\_\_

## Part B: Irregular Polygons

*Add all the side lengths together.*

5. Triangle with sides: 8 cm, 11 cm, 13 cm  
Perimeter = \_\_\_\_\_
6. Quadrilateral with sides: 6 m, 9 m, 7 m, 10 m  
Perimeter = \_\_\_\_\_
7. Pentagon with sides: 5 cm, 7 cm, 6 cm, 8 cm, 9 cm  
Perimeter = \_\_\_\_\_
8. Hexagon with sides: 4.5 m, 3.2 m, 5.1 m, 4.8 m, 3.7 m, 4.2 m  
Perimeter = \_\_\_\_\_

## Part C: Word Problems

9. A rectangular garden is 15 metres long and 8 metres wide. What is the perimeter of the garden?  
Perimeter = \_\_\_\_\_
10. A triangular sign has sides measuring 45 cm, 52 cm, and 38 cm. How much trim is needed to go around the edge of the sign?  
Trim needed = \_\_\_\_\_

11. An irregular pentagon-shaped field has sides of 120 m, 95 m, 110 m, 105 m, and 130 m. A farmer wants to build a fence around it. What length of fencing is required?

Fencing required = \_\_\_\_\_

### **Part D: Challenge**

12. A regular polygon has a perimeter of 56 cm. Each side is 7 cm long. How many sides does this polygon have?

Number of sides = \_\_\_\_\_