

## Perimeter of triangle

### A. Choose the Correct Answer:

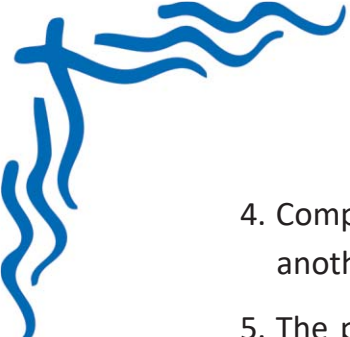
1. What is the perimeter of a triangle with sides 5 cm, 7 cm, and 9 cm?  
a) 20 cm                                      b) 21 cm  
c) 18 cm                                      d) 23 cm
2. A triangle with all three sides equal is called a:  
a) Isosceles triangle                      b) Right-angled triangle  
c) Equilateral triangle                  d) Scalene triangle
3. If the perimeter of a triangle is 30 cm and two of its sides are 10 cm and 8 cm, the third side is:  
a) 10 cm                                      b) 12 cm  
c) 8 cm                                        d) 15 cm
4. The perimeter of an equilateral triangle with each side 9 cm is:  
a) 27 cm                                      b) 18 cm  
c) 24 cm                                      d) 36 cm
5. The sum of the three sides of a triangle is called its:  
a) Area                                        b) Perimeter  
c) Height                                      d) Volume

### B. Write the Missing Terms to Complete the Sentences:

1. The perimeter of a triangle is the sum of the \_\_\_\_\_ of all three sides.
2. A triangle with sides 7 cm, 7 cm, and 7 cm is called an \_\_\_\_\_ triangle.
3. If one side of a triangle is 0 cm, the perimeter is \_\_\_\_\_.
4. A triangle with two equal sides is called an \_\_\_\_\_ triangle.
5. The perimeter of a triangle with sides 3 cm, 4 cm, and 5 cm is \_\_\_\_\_.

### C. Figure out the answers to these questions:

1. A triangular garden has three sides measuring 15 m, 20 m, and 25 m. How much fencing is required to cover the garden?
2. A triangle has a perimeter of 45 cm. If two of its sides are 17 cm and 12 cm, find the third side.
3. A student measured the sides of a triangular banner as 1.2 m, 1.5 m, and 2.3 m. Find the total length of cloth needed to sew around its edge.

- 
- Compare the perimeters of two triangles: one with sides 9 cm, 9 cm, 9 cm, and another with 10 cm, 8 cm, and 7 cm.
  - The perimeter of an equilateral triangle is 48 cm. What is the length of each side?

**D. Mark each sentence with a True (✓) or False (X):**

- The perimeter of a triangle is the total length of its three sides.
- An equilateral triangle has three sides of different lengths.
- A triangle with sides 6 cm, 8 cm, and 10 cm has a perimeter of 24 cm.
- Perimeter is always measured in square units.
- A triangle can have sides 5 cm, 10 cm, and 20 cm.

**E. Challenge yourself with these questions:**

**1. Match the type of triangle to its side properties:**

- ☐ Equilateral → \_\_\_\_\_
- ☐ Isosceles → \_\_\_\_\_
- ☐ Scalene → \_\_\_\_\_

- Two triangles have the same perimeter but different side lengths. Give such two examples.
- A triangular playground is enclosed by a fence. If the sides of the triangle are 30 m, 40 m, and 50 m, how much fencing wire is needed?
- A designer makes a triangular flag using ribbons. If each side is 25 cm, how much ribbon is used in total?
- A triangular frame is made using sticks of lengths 13 cm, 14 cm, and 15 cm. What is the total length of material used?

**F. Find the perimeter of each of the following triangles.**

