

Word Problems - Shapes

Showing all steps of the Problem Solving Method, complete the following problems.

1. A rectangle is 24 cm long and has a perimeter of 72 cm. Find the width.
2. The perimeter of a rectangle is 152 cm. The width is 35 cm. Find the length.
3. The longest side of a triangle is 8 cm longer than the shortest side and 5 cm longer than the third side. If the perimeter of the triangle is 56 cm, find the lengths of the three sides.
4. The lengths of the sides of a triangle are consecutive odd integers. If the perimeter is 1 less than four times the shortest side, find the length of each side.
5. The length of a rectangle is 18 cm more than the width. A second rectangle is 6 cm shorter and 3 cm wider than the first and has a perimeter of 126 cm. Find the dimensions of each rectangle.
6. A rectangle is 3 cm longer and 2 cm narrower than a square with the same area. Find the dimensions of each.
7. A rectangular swimming pool is 4 m longer than it is wide. It is surrounded by a cement walk 1 m wide. The area of the walk is 32 m^2 . Find the dimensions of the pool.
8. When the length of a square is increased by 6 and the width is decreased by 4, the area remains unchanged. Find the dimensions of the square.
9. A print is 10 cm longer than it is wide. It is mounted in a frame 1.5 cm wide. The area of the frame is 339 cm^2 . Find the dimensions of the print.