

Geometric Figures

1. One rectangle is 5 m longer than it is wide. A second rectangle is 2 m wider and 3 times as long as the first rectangle. Find the area of each rectangle if the sum of the two areas is 260 m^2 .
2. The length of a rectangle is 5 m more than 3 times the width. Find the width, the length, and the area of the rectangle if its perimeter is 50 m.
3. A rectangle is 2 longer than 3 times its width, and the area is 33 m^2 . Find the length and the width.
4. One rectangle is 4 m longer than it is wide. A second rectangle is 2 m wider and 3 times as long as the first rectangle. Find the area of each rectangle if the sum of the two areas is 300 m^2 .
5. The length of a rectangle is 4 m less than twice its width, and the area is 30 m^2 . Find the length and the width.
6. The length of a rectangle is 6 m less than 3 times the width. Find the width, the length, and the area of the rectangle if its perimeter is 44 m.
7. The perimeter of a wall mirror is 87 inches. The width is 17.1 inches. Find the length.
8. The length of a rectangle is seven more than five times its width. The perimeter of the rectangle is 74. Find the area.
9. Side b of a triangle is 3 cm longer than side a and 6 cm shorter than side c . Find the length of each side if the perimeter is 48 cm.
10. One leg of a right triangle is 14 cm longer than the other leg. The hypotenuse is 2 cm longer than the longer leg. Find the lengths of the three sides.
11. A triangle's height is 2 cm less than twice the length of its base. Find the length of the base and the height if the area is 20 cm^2 .
12. Side b of a triangle is 4 cm longer than side a and 6 cm shorter than side c . Find the length of each side if the perimeter is 80 cm.
13. One leg of a right triangle is 7 cm longer than the other leg. The hypotenuse is 1 cm longer than the leg. Find the lengths of the three sides.
14. A triangle's height is 4 cm less than twice the length of its base. Find the length of the base

and the height if the area is 35 cm^2 .