

Formula Word Problems: Area and Perimeter

1. Find the length of a rectangle whose area is 72 cm^2 and whose width is 18 cm.
2. Find the base of a triangle whose area is 52 cm^2 and whose height is 4 cm.
3. Find the length of a rectangle whose perimeter is 45 cm and whose width is 5 cm.
4. Find the height of a trapezoid whose area is 52 cm^2 and whose bases measure 12 cm and 14 cm.
5. Find the radius of a circle whose area is 200.96 cm^2 .
6. A rectangular flower bed is $6 \frac{1}{2}$ feet long and the area is 13 ft^2 . What is the width?
7. If a square has an area of 144 square feet, how long is each side?
8. Find the height of the parallelogram if its area is 250 cm^2 and its base is 50 cm.
9. If the side of a square is 15 cm, what is the square's perimeter?
10. If the circumference of a circle is 44.1 cm, what is the radius?
11. Find the base of the parallelogram if height is 12 cm and area is 108 cm^2 .
12. Find the height of the triangle if the base is 18 cm and area is 270 cm^2 .
13. Find the base of the trapezoid if one base is 8 cm, its height is 14 cm, and its area is 140 cm^2 .
14. If the perimeter of a rectangle is 82 cm and its length is 13 cm, what is the width.
15. If the perimeter of a square is 92 cm, what is the side?
16. If the diameter of a circle is 32 cm. What is the area of the circle?
17. If the circumference of the circle is 106.76 cm. What is the diameter of the circle?

FORMULA WORD PROBLEMS: VOLUME

18. What is the volume of the cube if the edge is 9 cm.
19. Find the height when the volume is 2,100 cubic meters, the length is 20 meters, and the width is 7 meters.
20. Find the height of the prism if the base is 6 cm, the height of the triangle is 7 cm, and the volume is 146 cm^3 .

