

Geometry Word Problems

1. Find the surface area of a cube having an edge length of 4 feet each.
2. There are 231 cubic inches in one gallon. How many gallons will a rectangular fish tank hold that is 5 feet long, 20 inches deep, and 2.5 feet wide?
3. One hundred feet of 1" pipe will hold 4.08 gallons of water. If Mary's 1" water pipe from her house to the street is 235 feet long, how much water will it hold?
4. What is the measure of the third interior angle of a triangle having interior angles of 36° and 112° ?
5. A lot is 114 feet by 212 feet. County rules require that nothing be built on land within 12 feet of any edge of the lot. Find the area on which you cannot build.
6. A room is 14 yards by 18 yards. Find the cost to carpet this room if carpet costs \$23 per square yard.
7. Find the cost of sod, at \$1.80 per square foot, for the following playing field. Round the answer to the nearest cent.



8. Find the amount of water in **milliliters** a circular pipe can hold that is 125 mm long and has a diameter of 5 cm.
9. What is the area of a rectangle with perimeter 177.6 mm and base length 39.9 mm?
10. If the base of a rectangle is 22 cm and the area is 484 cm^2 , what is the height of the rectangle?
11. What is the perimeter of a square garden having an area of 100 m^2 ?
12. Find the radius of a circle whose circumference is 35.6 inches. (Use 3,14 for pi.)
13. How many cubic inches are there in a cubic foot?
14. If a pump can remove water from a circular swimming pool at a rate of 30 gallons a minute, about how long will it take to empty a pool that has a radius of 8 feet and a constant depth of 3 feet? (There are 231 cubic inches in one gallon. Also, see problem above.)
15. Find the surface area of a cylinder having a height of 10 cm and a radius of 3 cm. (Hint: Think about what a toilet roll would look like if you cut it and "unfolded" it.)