

7. Find solid content and total area of:—

(a) A cube whose side is 6 feet.

(b) A square prism whose base is $2\frac{1}{2}$ yards by $2\frac{1}{2}$ yards, and height 4 yards.

(c) A triangular prism whose height is 20 feet, and whose base is an equilateral triangle with sides 12 feet in length and perpendicular height 10.4 feet.

(d) A cylinder whose height is 15 feet and the diameter of its base 3 feet.

8. What is the upright surface of a cylinder whose diameter is 20 feet and height 65 feet?

9. Find the cubic content of a log of wood whose height is 6 ft. 6 in. and its diameter 3 feet.

10. A cylinder is 3 feet long and $1\frac{1}{2}$ feet in diameter. How many square feet of canvas will be required to cover its upright surface? Its entire surface?

11. How many cubic feet in a triangular prism the area of whose base is 920 sq. ft. and height 20 feet?

12. Find the cubic content of a prism whose height is 25 inches and base a rectangle 3 by 5 inches.

13. Find the upright area of a triangular prism 5 feet high, whose base is an equilateral triangle with sides each 30 inches in length.

14. Express in cubic yards, feet and inches the content of a cube whose edge is 100 inches.

15. Express in square yards, feet and inches the surface of the above cube.

16. How many cubic feet of stone in a rectangular block 18 inches square at the end and 3 ft. 8 in. long?

17. A round tank is 16 feet deep and 8 feet in diameter. How much will it cost to cement the sides and bottom of it at 25¢ a square foot?

18. How many cubic feet of water will the tank hold?