## MENEDS ATTON

To and the solidity of a sphere or globe. Maltiply the subs

of the diameter by .5236. 23. How many cubic or solid inches are in a globe 12 inches diameter? Ans. 904.7808 c in.

24. How many cubic or solid miles does the earth contain, its mean diameter being 7912 miles ? oursid an ai Raiserid th Inion + worl . Incombinin MAne. 259.833.411.782.8608 c. m."

To find the convex surface of a cylinder. Multiply the circumference of its base by the altitude.

25. What is the convex surface of a cylinder, the diameter of whose base is 20 and altitude 50 inches?

sha all wind a 's mart with I had Ans. 21.8+ ig. feet. To find the area of an ellipse or oval. Multiply the product of the axes by :7854.

26. What is the area of an elliptic ceiling, the axes of which. are 33 feet 5 inches, and 20 feet 3 inches?

Ans. 59 yds. 0 ft. 67 in.

3 2

To find the content of a common cask. Find the mean diameter, by adding to the head diameter } of the difference between the bung and head diameters ; or if the stayes are not much curved, by adding 3. This reduces the cask to a cylinder. Then multiply the square of the mean diameter by .7854, and the product by the length, for the solid contents in inches, which reduce to gallons.

27. How many imperial gallons in a cask, whose bung diameter is 36 inches, head diameter 30 inches, and length 50 inches? and i GATE OF him Ans. 163.72 galious. the their man hanna the same that and a second and the

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12. Einer mittelle figienen in bie eine bes einerene eff thie wurth, Aug. 196,663,3637, 7504 aq. m.

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