

Sample Test Item Preview

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General Information

Related Benchmark: [MAFS.912.G-MG.1.3](#)

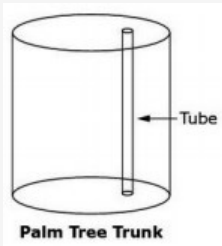
Reporting Category: Geometry: Modeling with Geometry

Type: EE: Equation Editor

Difficulty: N/A

Question:

The trunk of a palm tree has cylindrical tubes that carry water. Each tube is 0.0003 meters wide. One of the tubes in a palm tree trunk is shown.



- A. Using the diagram as a model, approximately how many tubes could fit in a palm tree trunk with a diameter of 0.5 meters?
- B. The tubes in a palm tree are between 20 to 21 meters long. What is the approximate volume, in cubic meters, of one tube?

Possible Answer:

- A. 2777778
- B. 0.00000141

Aligned Standards

Code	Description
MAFS.912.G-MG.1.3:	Apply geometric methods to solve design problems (e.g., designing an object or structure to satisfy physical constraints or minimize cost; working with typographic grid systems based on ratios). ★