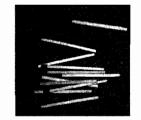
This problem gives you the chance to:

- · show understanding of volumes
- apply your knowledge to a practical situation

Matchsticks are rectangular prisms of wood measuring approximately $\frac{1}{10}$ inch by $\frac{1}{10}$ inch by 2 inches.



1. What is the volume of a matchstick? Show your calculation.

2. A tree trunk can be thought of as an approximate cone of wood.

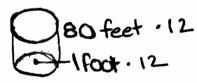
The volume of a cone is found using the formula $\frac{1}{3}\pi r^2 h$, where r feet is the radius of the base of the cone and h feet is the height of the cone.

How many matchsticks can be made from a tree with a trunk with a base radius of 1 foot and a height of 80 feet?

Show your work.

7227360

+ 306.58 = 08. [1604]) TE



83.65 ÷ .02 4183 · 12 .144

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$$\frac{1}{6} \cdot \frac{1}{6} \cdot 2 = 0.02$$

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The volume of a cone is found using the formula $\frac{1}{3}\pi r^2 h$, where r feet is the radius of the base of the cone and h feet is the height of the cone.

00Z in

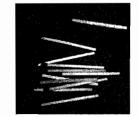
$$|317|^{2}80$$
 83.77
 $83.77 = .62$
 4188.5



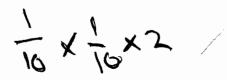
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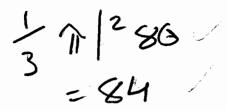
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How many matchsticks can be made from a tree with a trunk with a base radius of 1 foot and a height of 80 feet?

Show your work.

84 matchsticks



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my matchsticks can be made from a tree with a trunk with a base radius of 1 foot and a f 80 feet?

Sour work.

$$\frac{603000}{3000}$$
 $\frac{603000}{3000}$
 $\frac{603000}{3000$

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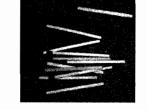
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Matchsticks are rectangular prisms of wood measuring approximately

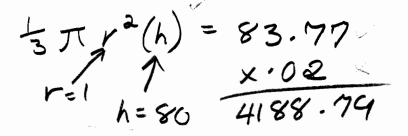
$$\frac{1}{10}$$
 inch by $\frac{1}{10}$ inch by 2 inches.



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The volume of a cone is found using the formula $\frac{1}{3}\pi r^2 h$, where r feet is the radius of the base of the cone and h feet is the height of the cone.

$$\frac{1}{3} \cdot \pi \cdot |^{2} \cdot 80 = $3.75$$

$$53.75 \cdot 12^{3}$$

$$144772 \cdot .02$$

This problem gives you the chance to:

- show understanding of volumes
- apply your knowledge to a practical situation

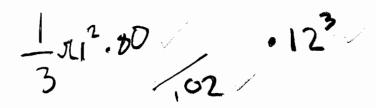
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.02

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Length widthheight = volume

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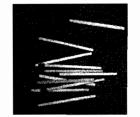
Show your work.

83.7758641.50

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.1..1.2

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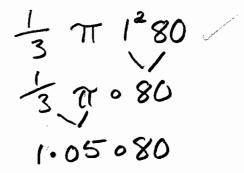


1. What is the volume of a matchstick? • OQ inches 3

Show your calculation.

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Matchsticks are rectangular prisms of wood measuring approximately

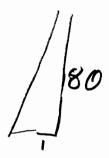
$$\frac{1}{10}$$
inch by $\frac{1}{10}$ inch by 2 inches.

1. What is the volume of a matchstick? Show your calculation.



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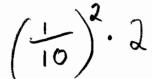
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Show your work.

7. 24 million

-016

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