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.

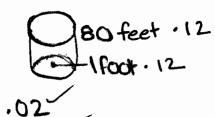
2. A tree trunk can be thought of as an approximate cone of wood.

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

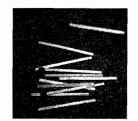


83.65 ÷ .02 4183 · 12 · 144

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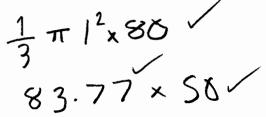
Λ

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Page 10

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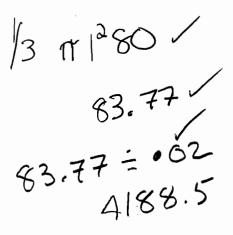
$$\frac{1}{6} \cdot \frac{1}{6} \cdot 2 = 0.02$$

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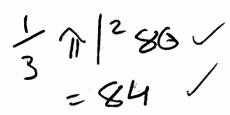
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ny matchsticks can be made from a tree with a trunk with a base radius of 1 foot and a feet?

Sour work.

$$\frac{663600}{3000}$$

matchstick

 $\frac{663600}{3000}$

matchstick

 $\frac{3}{3}$
 $\frac{3}{3$

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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? 7200000 Show your work.

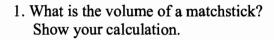
13·π·1°.80 83·77 + 50 4188·79 · 12·12·12

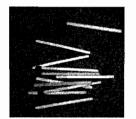
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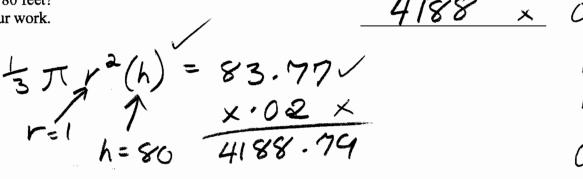


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Show your work.





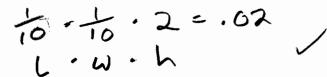
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Show your work.

$$\sqrt{3} \cdot \pi \cdot 1^{2} \cdot 80 = 83.78$$

$$83.78 \cdot 12^{3}$$

$$144772 \cdot .02 \times$$



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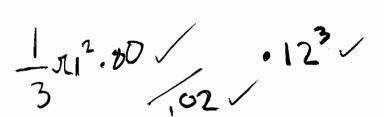
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How many matchsticks can be made from a tree with a trunk with a base radius of 1 foot and a height of 80 feet? 7260000/

Show your work.



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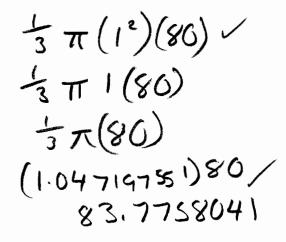
Length width-height = volume

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83.7758641.50

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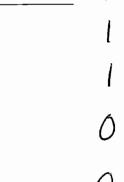
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Show your calculation.

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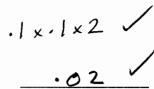


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$$\left(\frac{1}{10}\right)^2 \cdot 2$$

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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? 7.24 million

$$=960$$
 $\frac{1}{3}.\pi.12^{2}.960$
 $144765 \div \frac{1}{50}$
 $7,238,229$

2