

Matchsticks	Rubric	
	points	section points
<p>Shows that: Volume of matchstick</p> $= \frac{1}{10} \times \frac{1}{10} \times 2 \text{ cubic inches}$ $= \frac{1}{50} \text{ cubic inches}$	3	3
<p>Gives correct answer: ^a 7.2 million</p> <p>Volume of tree</p> $= \frac{1}{3} \times \pi \times 80 \text{ cubic feet}$ <p>^a 83.77 cubic feet</p> <p>Number of matchsticks</p> $^a 83.77 \div \left(\frac{1}{50} \times \frac{1}{12^3} \right)$ <p>^a 7.2 million</p> <p>(2 for volume of tree divided by volume of matchstick, 1 for unit conversion, 1 for answer)</p>	3 2 2	7
Total Points		10