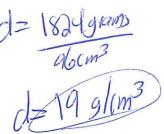
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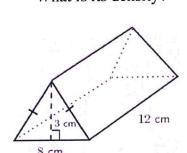
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Geometry	

Density

1. A brick that weighs 1824 grams has dimensions that measure 4 cm by 3 cm by 8 cm. To the nearest tenth, what is the density of the brick?



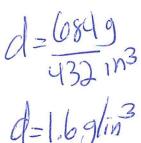
2. Clay in the shape of a triangular prism shown below has a mass of 1260 grams. What is its density?



 $V = \frac{1}{2} lwh$ $V = \frac{1}{2} lwh$ $V = \frac{1}{2} (8)(3)(12)$ $V = \frac{1}{2} (8)(3)(12)$ $V = \frac{1}{2} (8)(3)(12)$

3. A cylindrical candleholder has a diameter of 4.5 cm and a height of 20 cm. If the candleholder has a mass of 2900 g, rounded to the nearest whole number, what is its density?

4. A square pyramid with a base with an edge of 6 inches and a height of 12 inches has a mass of 684 grams. Find the density to the nearest tenth.





$$V = \frac{1}{3}l\omega h$$

 $V = (6)(12)$
 $V = 432 \text{ in}^3$

5. What is the density of a solid sphere of clay that has a diameter of 3.2 inches and has a mass of 552 grams? Round your answer to the nearest tenth.

$$d = \frac{5529}{17 \cdot m^3}$$

$$d = 32.2 \cdot 9/in^3$$

6. A wooden cube has an edge length of 6 centimeters and a mass of 137.8 grams. Determine the density of the cube, to the nearest thousandth. State which type of wood the cube is made of, using the density table below.

Type of Wood	Density (g/cm ³)	
Pine	0.373	
Hemlock	0.431	
Elm	0.554	
Birch	0.601	
Ash	0.638	
Maple	0.676	
Oak	0.711	

 $d = \frac{137.89}{216 \text{ cm}^3} \qquad V = lwh$ $d = .638 \text{ g/cm}^3 \qquad V = 216 \text{ cm}^3$ Ash

