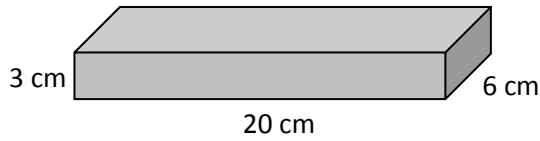


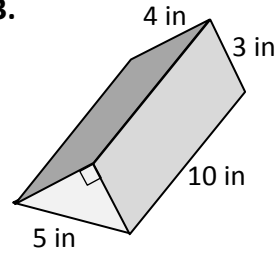
Worksheet 9.4

Find the volume of each geometric solid.

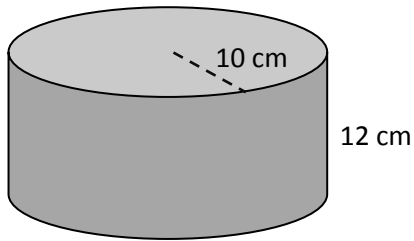
1.



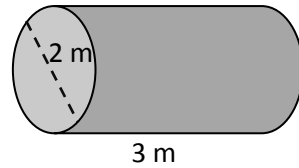
3.



2.

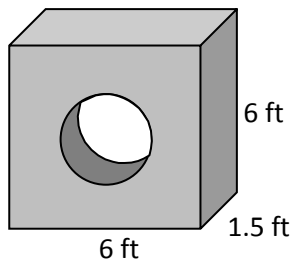


4.

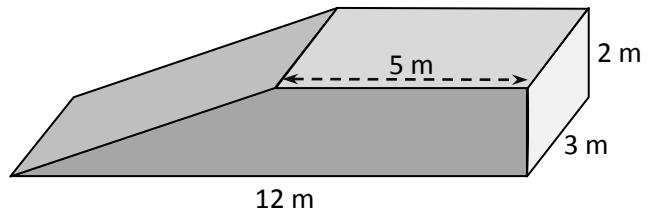


Find the volume of each composite solid.

5. The hole has a diameter of 2 feet.



6.



Check yourself: When you add the answers for 1 through 4 the total should be 4197.42. (using 3.14 for π)

7. Panther Candle Company is buying wax to make pretty smelling candles. Each candle is a cylinder with a diameter of 8 cm and a height of 12 cm. You want to make 100 candles. Wax is sold by the kilogram. 1000 cm^3 of wax has a mass of 3.5 kg. How much should be ordered?



8. Your favorite breakfast cereal company is changing its box. Both the old and new boxes are filled completely. But, the original rectangular prism shaped box has shrunk to half its original dimensions (length, width, and height). The company says that it is a good deal for the consumer since they have cut the original price in half too. Somehow you are feeling cheated. Are you? Justify your reasoning.

