



Name: _____ Date: _____ 2. Calculate the surface area and volume of the following objects. If rounding is necessary, give your answer to the nearest tenth.





S.A. = _____





S.A. = _____











<u>Hint</u>: Use Pythagoras to calculate the slant height... you'll need it to find the surface area!



volume = _____

S.A. = _____

volume = _____



<u>Hint</u>: Use Pythagoras to calculate the height... you'll need it to find the volume!

- 3. A storage bin is a rectangular prism that measures 125 cm long by 55 cm wide by 70 cm deep.
 - a) What is the surface area of the bin?
 - b) What is the volume of the bin?

4. What is the capacity, in litres, of a cone with radius of 62 cm and a height of 26 cm? Round your answer to the nearest hundredth. <u>Hint</u>: 1 L = 1000 cm³ 5. A can of pineapple juice that stands 23 cm tall has a volume of 1800 cm³.

What is the diameter of the can, rounded to the	
nearest tenth?	

- 6. A giant Toblerone bar has ends (bases) that are equilateral triangles with 25 cm long sides. The bar is 90 cm in length from end to end.
 - a) What is the height of the base (rounded to the nearest hundredth)? <u>Hint</u>: Use Pythagoras!
 - b) What is the volume of the bar (rounded the nearest tenth)?
 - c) What is the capacity of the bar in litres (rounded to the nearest tenth)? <u>Hint</u>: 1 L = 1000 cm³

1. a) A = 81 cm², P = 36 cm b) A = 25.2cm², P = 71.2 cm
c) A = 56.09 m², P = 27.02 m d) A = 10 cm², P = 15.4 cm
2. a) SA = 384 cm², V = 512 cm³ b) SA = 256.9 cm², V = 233.0 cm³
e) SA = 7361.1 cm², V = 1335.2 cm³ d) SA = 385.0 cm², V = 367.6 cm³
g) SA = 798.2 cm², V = 10 306.0 cm³ f) SA = 796.4 cm², V = 1485.2 cm³
a) 38 950 cm² (or 3.90 m²) b) 481 250 cm³ (or 0.48 m³)
f. 104.66 L
6. a) 21.65 cm b) 24 356.3 cm³ c) 24.4 L