

# Measurement

\* Conversions and formulas will be given on the exam\*

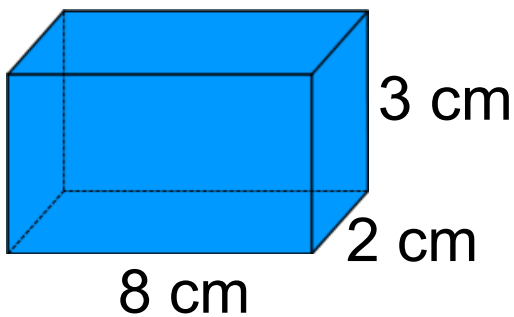
Ex. 1 Convert each measure.

- a) 100 inches to feet      b) 3500 g to lbs  
if 12 inches = 1 foot      if 1000 g = 2.2 lbs

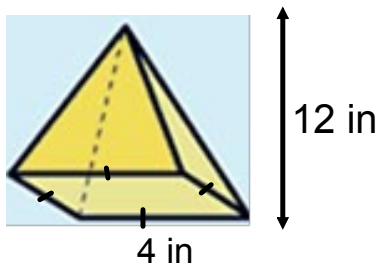
Ex. 2 Determine the volume and surface area of the following prisms. Draw a diagram of the net for each.

$$SA = 2(l \times w) + 2(l \times h) + 2(w \times h)$$
$$V = l \times w \times h$$

a)



b)



$$V = \frac{L \times W \times H}{3}$$

$$SA = b^2 + 2bs$$

Ex. 3 The formula for volume of a cone is  $V = \frac{1}{3}\pi r^2 h$   
If the volume of a cone is  $100 \text{ cm}^3$  and the radius is 4 cm, determine the height to the nearest cm.

Ex. 4: Find the height of the following cone, then use the formula in #3 to find the volume.

