

Review – Unit 2

Name: _____

YOU MUST SHOW YOUR WORK WHENEVER POSSIBLE!

1. Use the formulae sheet to help you to convert the following measurements into the indicated units.

a) $0.1 \text{ kg} =$ _____ g d) $1463 \text{ mL} =$ _____ ℓ

b) $14 \text{ m} =$ _____ cm e) $2.1 \text{ g} =$ _____ kg

c) $281 \ell =$ _____ ℓ f) $102 \text{ mm} =$ _____ cm

2. Convert the following imperial measurements. Leave answers in *two* decimals when necessary.

a) $11.2 \text{ miles} =$ _____ yards c) $5.3 \text{ yards} =$ _____ inches

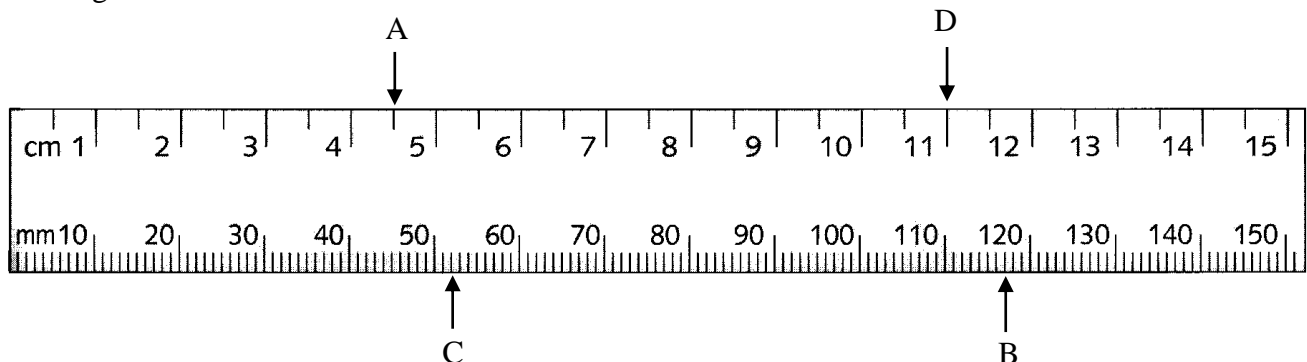
b) $294.1 \text{ inches} =$ _____ feet d) $25\,000 \text{ ft} =$ _____ miles

3. Convert between the following imperial and metric units. Leave all answers in *two* decimals. (8)

a) $38 \text{ km} =$ _____ mi c) $137 \text{ in} =$ _____ cm

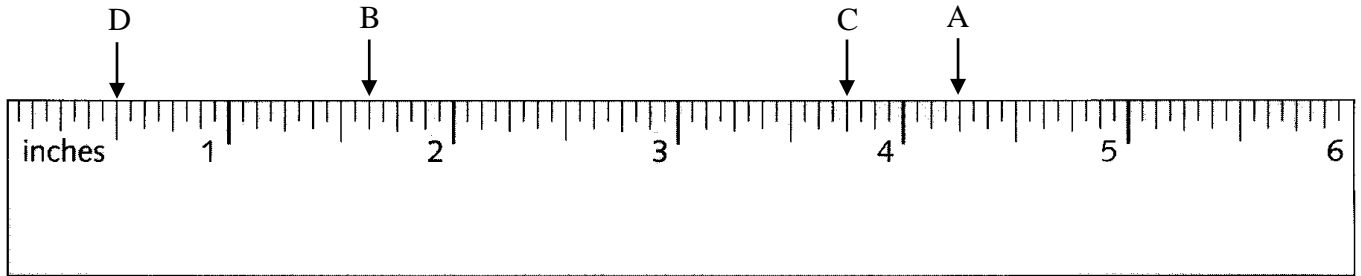
b) $309 \text{ ft} =$ _____ m d) $2462 \text{ mm} =$ _____ ft

4. Determine the length of the following objects. Assume that one end of the object is lined up with the left hand edge of the ruler.



Object	Length (cm)	Length (mm)	Object	Length (cm)	Length (mm)
A			C		
B			D		

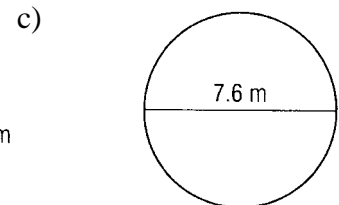
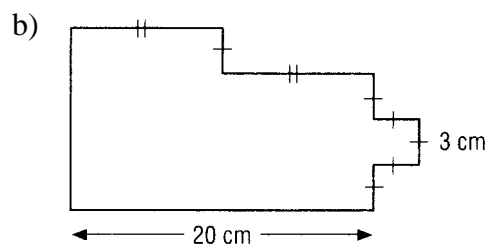
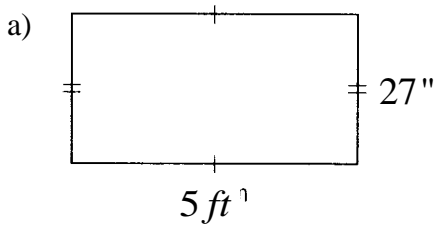
5. Determine the length of the following objects. Assume that one end of the object is lined up with the left hand edge of the ruler.



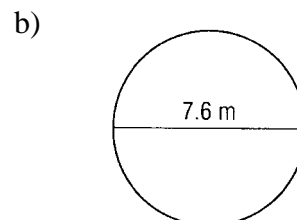
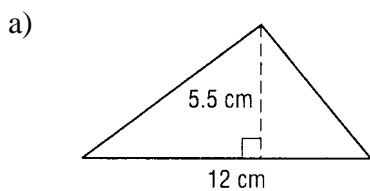
Make sure to completely simplify the fractional part of the answer!

<i>Object</i>	<i>Length (simplified)</i>
A	
B	
C	
D	

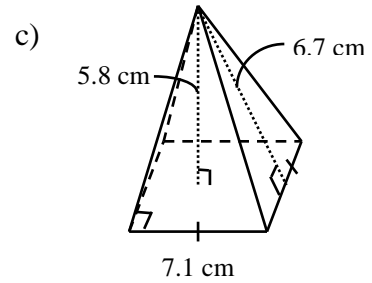
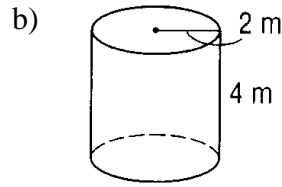
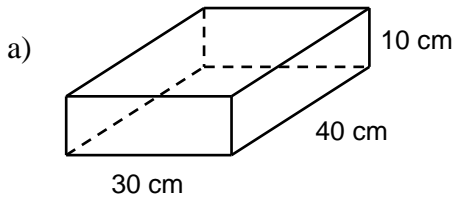
6. Calculate the **perimeter** of each of the following shapes.



7. Calculate the **area** of each of the following shapes.



8. Calculate the **surface area** of the following solids on a separate sheet of paper.



9. Convert between the following area units.

a) $397 \text{ in}^2 = ? \text{ ft}^2$

b) $256 \text{ m}^2 = ? \text{ ft}^2$

c) $302 \text{ cm}^2 = ? \text{ mm}^2$

d) $46.7 \text{ ft}^2 = ? \text{ yd}^2$

10. Convert between the following volume units.

a) $1.5 \text{ yd}^3 \rightarrow ? \text{ in}^3$

b) $276 \text{ ft}^3 = ? \text{ m}^3$

c) $66.7 \text{ yd}^3 = ? \text{ ft}^3$

d) $96 \text{ km}^3 = ? \text{ miles}^3$

11. Convert between the following masses.

a) $21.4 \text{ lb} \rightarrow ? \text{ g}$

b) $5917 \text{ lb} \rightarrow ? \text{ kg}$

c) $59.2 \text{ kg} \rightarrow ? \text{ lb}$

d) $63 \text{ oz} \rightarrow ? \text{ lb } ? \text{ oz}$

12. Convert the following temperatures to degrees Fahrenheit.

a) 62°C

b) -94°C

13. Convert the following temperatures to degrees Celcius.

a) -278°C

b) 77.9°C