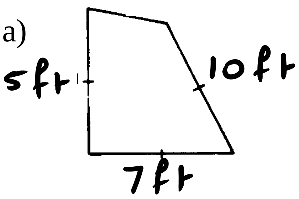
Name: ______________________________

Unit 2 – Measurement

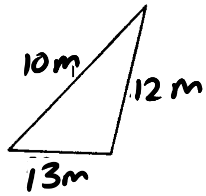
Pretest A

1. Calculate the **perimeter** or **circumference** of the following shapes.

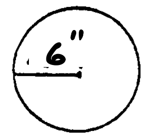
a)



b)

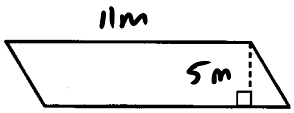


c)

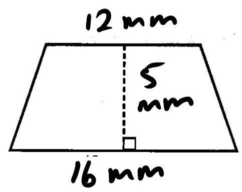


2. Calculate the **area** of the following shapes.

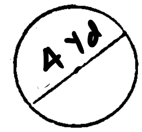
a)



b)

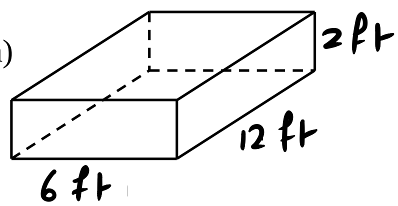


c)

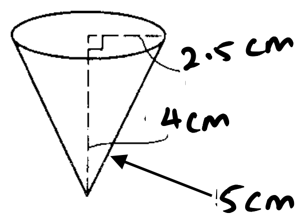


4. Calculate the **surface area** of the following solids.

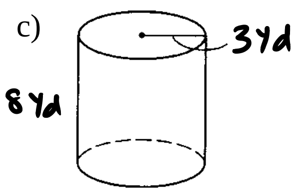
a)



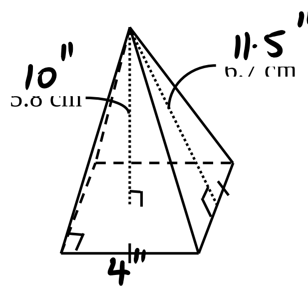
b)



c)

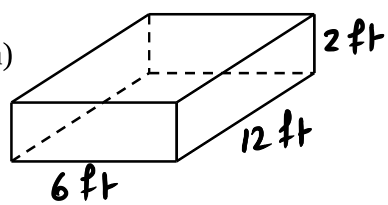


d)

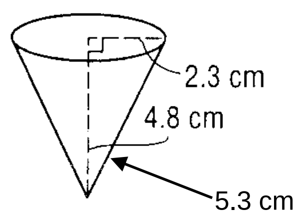


5. Calculate the **volume** of the following solids.

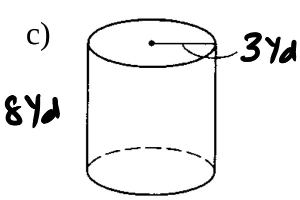
a)



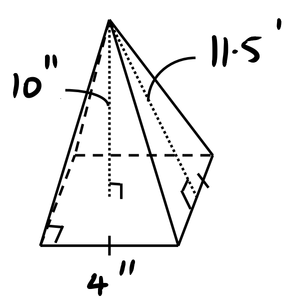
b)



c)



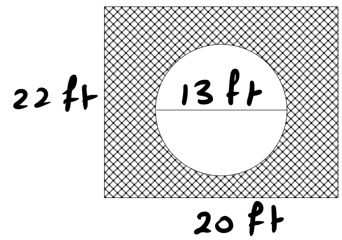
d)



6. Find the required measurements for the following figures.

a) **Perimeter**

b) **Shaded Area**



7. Convert between the following area units.

a) $20.6\ dam^2 = ?\ dm^2$

b) $302\ in^2 = ?\ ft^2$

c) $123\ m^2 = ?\ ft^2$

d) $46.3\ cm^2 = ?\ mm^2$

e) $18.7\ ft^2 = ?\ yd^2$

f) $32\ miles^2 = ?\ km^2$

8. Convert between the following volume units.

a) $5\ 000\ 000\ m^3 \rightarrow ?\ hm^3$

b) $7.2\ yd^3 \rightarrow ?\ in^3$

c) $437\ ft^3 = ?\ m^3$

d) $345\ mm^3 = ?\ cm^3$

e) $82.7\ yd^3 = ?\ ft^3$

f) $16\ km^3 = ?\ miles^3$

9. Convert between the following masses.

a) 23.4 lb → ? g

b) 3423 lb → ? kg

c) 783 mg → ? g

d) 25.2 g → ? kg

e) 89.2 kg → ? lb

f) 76 oz → ? lb ?oz

10. Convert the following temperatures to degrees Fahrenheit. **First estimate and then find exact value.**

a) $98°C$

b) $-74°C$

c) $49\ °C$

d) $222\ °C$

11. Convert the following temperatures to degrees Celcius. **First estimate and then find exact value.**

a) $-125\ °C$

b) $36.9\ °C$

c) $44.3\ °C$

d) $-28.9\ °C$