Measurement Practice

Perimeter and Area of Composite Shapes

- 1) Review of unit conversions: Imagine you were going to convert the following units. Fill in the correct numbers in each proportion that you would use to solve, then state the final answer after solving. (Round all decimals to 1 decimal place only!)
 - a) Convert 52.9 inches to yards. (1 yard = 36 inches)

$$\frac{1 \ yard}{yards} = \frac{36 \ inches}{inches}$$

e

b) Convert 12.9 L to quarts. (1 Litre = 1.06 quarts)

$$\frac{1 \ litres}{litres} = \frac{1.06 \ quarts}{quarts}$$

2.9 L is equal

quarts

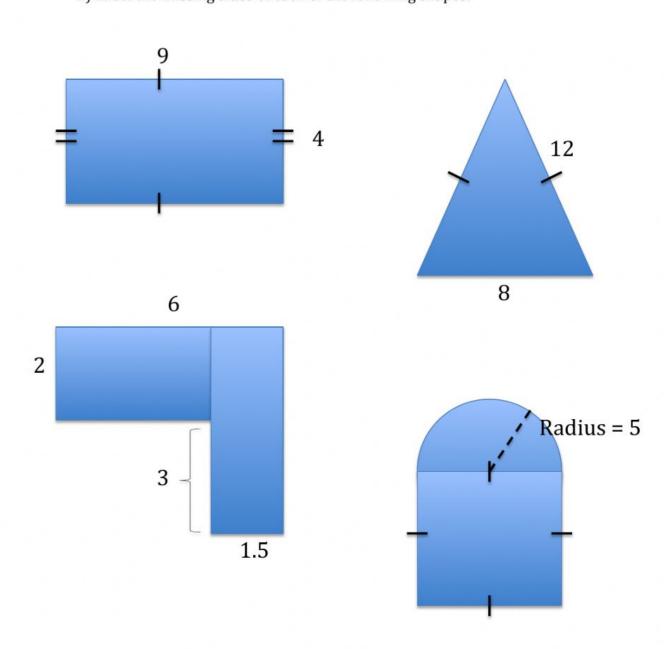
c) Convert 39.6 cm to inches (1 inch = 2.54cm)

$$\frac{1 in}{in} = \frac{2.54 cm}{cm}$$

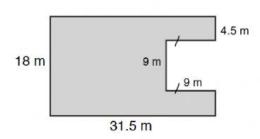
After solving this on paper, I have determined that 39.6 cm is equal
to:
inches



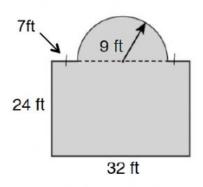
2) Label the missing sides of each of the following shapes.



3. Find the **perimeter** of the composite shapes. Choose your answer from the options at the bottom of the page and then drag it in to the correct position.



Final perimeter = _____ m



Final perimeter = _____ft

108	117	72	99
81	112.5	65	89
98	136.5	108.3	112.5
84.3	80	108.5	122.3

Helpful Formulas

Perimeter = add all sides together

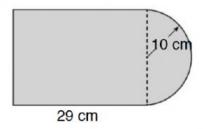
Diameter = 2(radius)

Circumference = $2\pi r$

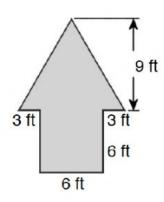
 $\pi = 3.14$



4. Find the **area** of the composite shapes. Choose your answer from the options at the bottom of the page and then drag it in to the correct position.



Final area = _____ cm²



Final area = ______ ft²

290	580	894	90
157	138	657.5	9110.6
36	63	737.1	144
27	39	76.5	108

Helpful Formulas

 $A_{rectangle} = Lw$

 $A_{circle} = \pi r^2$

 $A_{triangle} = \frac{Base \times Height}{2}$

 $\pi = 3.14$

