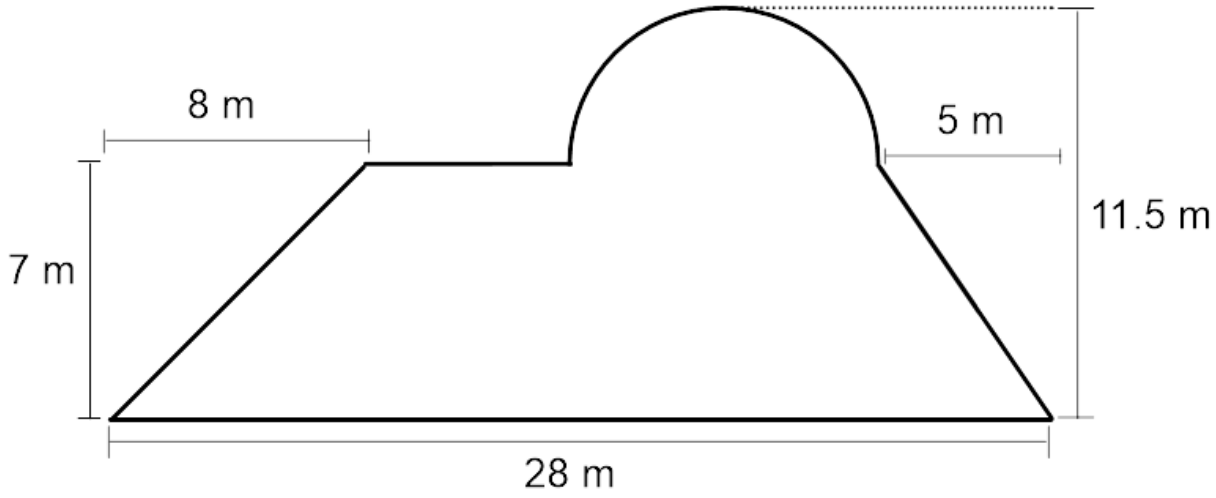
Name: _____ Date: _____

Measurement and Geometry – Day 4: Mid-Unit Consolidation Assignment

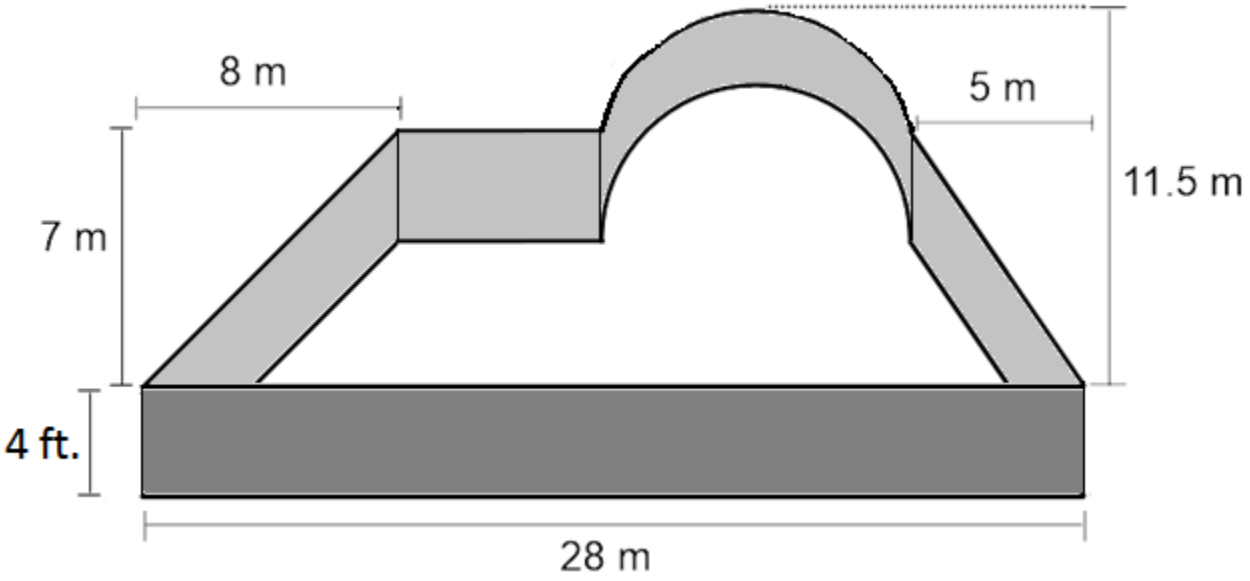
***An overall communication mark of 12 will be given for this assignment based on:**

Showing work / calculations
Organization / clarity of solutions
Explanations / therefore statements



1. Determine the **perimeter** of the figure above. Show all of your work! (8 marks K)
2. Convert the perimeter to millimetres, centimetres, feet and inches. Show your conversions. (3 marks A)
3. Determine the **area** of the figure above. Show all of your work! (8 marks K)
4. Convert the area to mm^2, cm^2, $ft.^2$ and $in.^2$. Show your conversions. (3 marks A)

You like the figure from the previous page so much that you have decided to turn it into a swimming pool, a very large swimming pool! The entire pool will be 4 feet deep.



5. Determine the volume of water (in Litres) that the pool will hold if you leave a 6 inch buffer. **Remember, 1L = 1000 cm^3, and use your work from the previous questions!!** (6 marks T)
6. Determine how much *more* water would be required to fill the pool to the tippy top. (2 marks A)
7. You need to apply a protective coating to the inside walls of the pool. Determine the total surface area of the inner walls. (6 marks A)
8. You have also decided to line the top foot of the inner walls with tile. The tiles are 1 inch squares. Determine how many tiles you will require in total. (5 marks T)

$\frac{\quad}{16}K$ $\frac{\quad}{16}A$ $\frac{\quad}{12}T$ $\frac{\quad}{12}C$