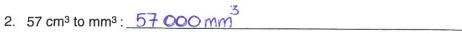
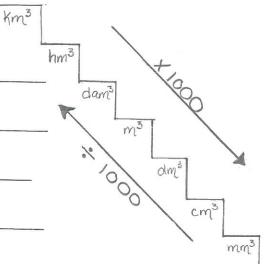
Metric Volume Conversions

Name:	Answer	Ken	
		(1)	









Metric Volume Conversions

- 17. Karen has a pool that holds 100 000 m³ of water that she needs to maintain properly.
 - a) 1 chlorine puck contains 5 grams of chlorine and she needs 1 puck per 10 dam³ of water. How many grams of chlorine does Karen need?

$$\frac{100 \text{ dom}^3}{10} = \frac{100 \text{ dam}^3}{10}$$

b) Since it's summer and the weather is warm, water evaporates from Karen's pool at a rate of 10 000 000 cm³ per day. If the amount of water in the pool goes below 99 940 m³, her skimmer will stop working. If Karen starts off with 100 000 m³ in her pool, how many days until the skimmer stops working?

c) Karen notices her pool has gone down to 99 950 m³ and wants to fill it up with the hose. The hose runs at a rate of 2500 dm³ per hour. How many hours will she need to run the hose for so the pool is full again? (100 000 m³)