

**Please watch the video and follow along with this worksheet.**

1. 60 inches = ? cm

2.  $1800 \text{ ft}^2 = ? \text{ in}^2$

3. 1 year = ? seconds

*Complete the following on your own:*

4. How many molecules of water do you drink per day?  
(1 cup has  $8.36 \times 10^{24}$  molecules of water; people drink 6-8 cups of water per day)

*HINT: How much water do YOU drink each day?*

5. How many cells do you lose every day from your head of hair? (35,000 cells for every inch of hair (14,000 cells per cm of hair); people have an average of 100,000 hairs on their head; people lose 100 hairs per day from their head).

*HINT: How long is YOUR hair?*

Answer Key:

1. 152.4 cm
2. 259,200 square inches
3.  $3.15 \times 10^7$  seconds
4. For 8 cups of water per day, it's  $66.88 \times 10^{24}$  molecules of water per day
5. If my hair is 12 inches, then:  
 $12'' * 35,000 \text{ cells/inch of hair} * 100 \text{ hairs} = 42 \text{ million cells lost per day}$