

14. a) The most realistic measure of a toothpick is 450 milligrams.  
 b) The most realistic measure of the height of the Eiffel Tower is 300 meters.  
 c) The most realistic measure of the amount of blood in the human body is 4 liters.

To solve this problem I used logic. Two out of the three choices were too big or too small to make sense.

20. a)  $136^{\circ}\text{F}$  is  $\underline{57.8^{\circ}\text{C}}$       The highest recorded temperature (in Libya in 1922) was  $\underline{57.8^{\circ}\text{C}}$ .

$$^{\circ}\text{C} = \frac{5(136^{\circ}\text{F} - 32)}{9}$$

$$^{\circ}\text{C} = 57.8^{\circ}$$

b)  $40^{\circ}\text{C}$  is  $\underline{104^{\circ}\text{F}}$       At  $\underline{104^{\circ}\text{F}}$  body temperature, you should see a doctor.

$$^{\circ}\text{F} = \frac{9(40^{\circ}\text{C}) + 32}{5}$$

$$^{\circ}\text{F} = 104^{\circ}$$

c)  $-26^{\circ}\text{C}$  is  $\underline{-14.8^{\circ}\text{F}}$       At  $\underline{-14.8^{\circ}\text{F}}$  you should check your car's antifreeze.

$$^{\circ}\text{F} = \frac{9(-26^{\circ}\text{C}) + 32}{5}$$

$$^{\circ}\text{F} = -14.8^{\circ}$$

d)  $-127^{\circ}\text{F}$  is  $\underline{-88.33^{\circ}\text{C}}$       The lowest recorded temperature (in Antarctica in 1960) was  $\underline{-88.33^{\circ}\text{C}}$ .

$$^{\circ}\text{C} = \frac{5(-127^{\circ}\text{F} - 32)}{9}$$

$$^{\circ}\text{C} = -88.33^{\circ}$$