

Name: \_\_\_\_\_

### **Negative Exponents and Small Numbers**

1. Is it possible for someone to be  $1/1,000^{\text{th}}$  of a decade old? Explain.
  
2. Is it possible for someone to be  $10^{-2}$  of a year old? Explain.

**A typical human heart beats about 70 times a minute:**

3. How many seconds does a heart beat in  $1/10^{\text{th}}$  of an hour? Explain
  
4. How many seconds does a heart beat in  $10^{-4}$  of a year? Explain
  
5. A red blood cell is 0.000008 meters.
  - a. Write this number in scientific notation.
  
  - b. Compare this to a millimeter.
  
6. A human skin cell is  $3.0 \times 10^{-5}$  meters. Write this number in standard form.
  
7. A human egg is  $1.3 \times 10^{-4}$  meters. Write this number in standard form.