Use the place-value chart and the prefixes chart to complete the following statements and fill in the missing exponents.

1. The distance from Chicago to New Orleans is about $10^3$, or one \underline{thousand} miles.

2. A millionaire has at least $10^6$ dollars.

3. The Moon is about 240,000, or $\underline{24} \times 10^4$, miles from Earth.

4. A computer with a \underline{trillion} hard drive can store approximately $10^{12}$, or one \underline{trillion} bytes of information.

5. The Sun is about $89 \times 10^6$, or $\underline{89,000,000}$, miles from Saturn.

6. A 5-megapixel camera has a resolution of $5 \times 10^6$, or $\underline{5}$ million pixels.

7. What patterns do you notice in the following number sentences?
   
   \[
   42 \times 100 = 42 \times 10^2 = 4,200 \\
   42 \times 1,000 = 42 \times 10^3 = 42,000 \\
   42 \times 10,000 = 42 \times 10^4 = 420,000
   \]

   **Sample answer:** An extra zero is attached to the answer each time. The number of zeros is the same as the exponent.