



NAME

DATE

PERIOD

Unit 7, Lesson 9

Practice Problems

1. Match each number to its name.

- | | |
|------------------|-------------------|
| A. 1,000,000 | 1. One hundredth |
| B. 0.01 | 2. One thousandth |
| C. 1,000,000,000 | 3. One millionth |
| D. 0.000001 | 4. Ten thousand |
| E. 0.001 | 5. One million |
| F. 10,000 | 6. One billion |

2. Write each expression as a multiple of a power of 10:

- 42,300
- 2,000
- 9,200,000
- Four thousand
- 80 million
- 32 billion

3. Each statement contains a quantity. Rewrite each quantity using a power of 10.

- There are about 37 trillion cells in an average human body.
- The Milky Way contains about 300 billion stars.
- A sharp knife is 23 millionths of a meter thick at its tip.
- The wall of a certain cell in the human body is 4 nanometers thick. (A nanometer is one billionth of a meter.)



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4. A fully inflated basketball has a radius of 12 cm. Your basketball is only inflated halfway. How many more cubic centimeters of air does your ball need to fully inflate? Express your answer in terms of π . Then estimate how many cubic centimeters this is by using 3.14 to approximate π .

5. Solve each of these equations. Explain or show your reasoning.

$$2(3 - 2c) = 30$$

$$3x - 2 = 7 - 6x$$

$$31 = 5(b - 2)$$

6. Graph the line going through $(-6, 1)$ with a slope of $\frac{-2}{3}$ and write its equation.

