

Name \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_



## SI Units



### PART A – SI UNITS

What type of measurement is indicated by each of the following units? Choices are in the last column.

- |               |                          |                            |         |
|---------------|--------------------------|----------------------------|---------|
| 1. g/mL _____ | 4. g _____               | 7. mg _____                | density |
| 2. s _____    | 5. cm <sup>3</sup> _____ | 8. L _____                 | length  |
| 3. km _____   | 6. mm _____              | 9. g/cm <sup>3</sup> _____ | mass    |
|               |                          |                            | time    |
|               |                          |                            | volume  |

For each of the following commonly used measurements, indicate its symbol. Use the symbols to complete the following sentences with the most appropriate unit. Units may be used more than once or not at all.

- |                  |                   |                 |                  |
|------------------|-------------------|-----------------|------------------|
| _____ milliliter | _____ milligram   | _____ liter     | _____ centimeter |
| _____ kilogram   | _____ millimeter  | _____ kilometer | _____ gram       |
| _____ meter      | _____ millisecond | _____ microgram | _____ second     |

- Colas may be purchased in two or three \_\_\_\_\_ bottles.
- The mass of a bowling ball is 7.25 \_\_\_\_\_.
- The length of the common housefly is about 1 \_\_\_\_\_.
- The mass of a paperclip is about 1 \_\_\_\_\_.
- One teaspoon of cough syrup has a volume of 5 \_\_\_\_\_.
- Stand with your arms raised out to your side. The distance from your nose to your outstretched fingers is about 1 \_\_\_\_\_.
- The body mass of a flea is about 0.5 \_\_\_\_\_.
- On a statistical basis, smoking a single cigarette lowers your life expectancy by 642,000 \_\_\_\_\_, or 10.7 minutes.

### PART C – SCIENTIFIC NOTATION

Convert the following numbers into or out of scientific notation. Remember to keep the same number of significant figures.

- |                      |                                  |
|----------------------|----------------------------------|
| 1. 0.00003 cm _____  | 5. $1.05 \times 10^5$ mm _____   |
| 2. 8,600,000 g _____ | 6. $1.00 \times 10^{-3}$ m _____ |
| 3. 0.021 kg _____    | 7. $7.20 \times 10^{-6}$ s _____ |
| 4. 340 nm _____      | 8. $4.404 \times 10^2$ m/s _____ |