

**Practice Quiz**  
**Chapters 1-3**

Print Name \_\_\_\_\_ Section \_\_\_\_\_

Print the LETTER of  
the answer below.

You may NOT use a calculator on this quiz. Work on this paper or on scratch paper. On calculations, do the math, *then* choose an answer. Write the answer *letter* at the right if a line for the answer is provided

1. Change 0.0034 to scientific notation.    a. 3.40    b.  $3.4 \times 10^{-3}$     c.  $3.4 \times 10^{-4}$     d.  $3.4 \times 10^4$

1. \_\_\_\_\_

2. Answer in scientific notation with proper significant figures     $\frac{1.00 \times 10^{-23} \text{ m}^2}{(2.00 \text{ m})(2.50 \times 10^{-15} \text{ s})} =$

2. Answer at left

3. Which of these is incorrect? 1,000 grams of water

- a. has a volume of 1 L                      b. has a volume of 1,000 mL  
c. has a mass of 1.0 kg                      d. has a volume of one cubic meter

3. \_\_\_\_\_

4. Which of these is the smallest?

- a. 1 kilosecond                      b. 1 picosecond                      c. 1 microsecond                      d. 1 nanosecond

4. \_\_\_\_\_

5. How many significant figures are in: 100.170    a. 2    b. 3    c. 4    d. 5    e. 6

5. \_\_\_\_\_

6. How many significant figures are in: 0.00360    a. 2    b. 3    c. 4    d. 5    e. 6

6. \_\_\_\_\_

7. How *many* significant figures can there be in the *answer* to this calculation:  $103.20 \times 0.06400 =$

- a. 2    b. 3    c. 4    d. 5    e. 6

7. \_\_\_\_\_

8. How *many* significant figures can there be in the *answer* to this calculation:    132.1  
a. 2    b. 3    c. 4    d. 5    e. 6                      + 1.08

8. \_\_\_\_\_

Fill in the blanks. Add *exponential* terms to 9 and 10:

9. 1 watt = \_\_\_\_\_ megawatts                      10. 1 kPa = \_\_\_\_\_ Pa

11. Write the decimal equivalent:  $1/8 =$  \_\_\_\_\_

12.  $6.0 \times 10^{-1} \frac{\text{L} \cdot \text{g}}{\text{s}} \cdot 2.0 \text{ m} \cdot \frac{4.0 \text{ s}^4}{3.0 \times 10^{-5} \text{ L}} =$

13. On the back, multiply  $57 \times 89 =$

14. The symbol for Boron is \_\_\_\_\_                      15. Na is the symbol for the atom \_\_\_\_\_

← For 9 -15,  
write answers in  
the spaces  
provided  
at the left.

**Answer Key:**

<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
B	$2.00 \times 10^{-9} \text{ m/s}$	D	B	E	B	C	C	$10^{-6}$	$10^3$	0.125	$1.6 \times 10^5 \text{ g}\cdot\text{m}\cdot\text{s}^3$	5,073	B	sodium