

Practice Quiz: Calculations In Chemistry

Name _____

Print the LETTER of the answer below.

Chapters 1-4:

Section _____

You *may* use a calculator on this quiz. You may write on this paper.

On the calculations, do the math, *then* pick an answer.

1. Answer in scientific notation with proper significant figures $\frac{4.00 \times 10^{-23} \text{ m}^2}{(0.200 \text{ m})(2.50 \times 10^{-15} \text{ s})} =$

2. Which of these is the smallest quantity?

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

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

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

5. How *many* significant figures can there be in the *answer* to this calculation: $406.90 \times 0.03200 =$

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

6. How *many* significant figures can there be in the *answer* to this calculation: $132.1 + 1.08$

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

7. If one in. = 2.54 cm and 12 in. = 1 foot (ft.), ? ft. = 175 cm

- a. 37.0 ft. b. 827 ft. c. 5330 ft d. 5.74 ft e. 0.174 ft.

8. If one inch = 2.54 cm and 12 inches = 1 foot (ft.),

? $\frac{\text{cm}}{\text{min}}$ = $\frac{9.0 \text{ ft.}}{\text{hour}}$

- a. 0.032 cm/min b. 4.6 cm/min c. 18 cm/min d. 0.71 cm/min e. 16,000 cm/min

9. Symbol for Bromine = ?

10. Symbol Na is the element named ?

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

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>
$8.00 \times 10^{-8} \text{ m/s}$	B	E	B	C	C	D	B	Br	Sodium