0.5 Scientific Notation Pretest/Checkup

1. What is 0.006 70 m in correct scientific notation?
a) 6.70 x 10 ^ -3 m
b) 6.70 x 10 ^ -3
c) 6.70 x 10 ^ 3
d) 6.70 x 10 ^ 3 m
e) none of the above

2. What is 1.59 x 10 ^ 7 g in conventional notation?
a) 0.000 000 159 g
b) 1 590 000 000 g
c) 15 900 000 g
d) 0.000 000 159
e) 1 590 000 000

3. What is 4.1 x 10 ^ -5 ns in conventional notation?
a) 0.000 041 ns
b) 0.000 004 1 ns
c) 410 000 ns
d) 4 100 000 ns
e) none of the above

4. What is 350 000 mol in correct scientific notation?
a) 3.5 x 10 ^ -5 mol
b) 3.5 x 10 ^ -4 mol
c) 3.5 x 10 ^ 4 mol
d) 3.5 x 10 ^ 5 mol
e) none of the above

5. When using correct scientific notation, the base number must fall between ...
a) 0 and 1
b) 1.000 and 9.999 (repeating decimals)
c) 1 and 100
d) 0 and 100
e) none of the above

6. In correct scientific notation, the number ten thousand would be ...
a) 1 x 10 ^ 3
b) 1 x 10 ^ 4
c) 1 x 10 ^ 5
d) 1 x 10 ^ -5
e) 1 x 10 ^ -4

7. In correct scientific notation, the number 1/1000 would be ...
a) 1 x 10 ^ 4
b) 1 x 10 ^3
c) 1 x 10 ^ -4
d) 1 x 10 ^ -2
e) 1 x 10 ^ -3

8. In correct scientific notation, the number one-millionth would be ...
a) 1 x 10 ^ -6
b) 1 x 10 ^ -7
c) 1 x 10 ^ -5
d) 1 x 10 ^ 5
e) 1 x 10 ^ 6

9. What is 5.6 x 10 ^ -7 s + 3.65 x 10 ^ -6 s?
DO THIS WITHOUT A CALCULATOR!
a) 9.25 x 10 ^ -13 s
b) 9.25 s
c) 9.25 x 10 ^ -7 s
d) 4.21 x 10 ^ -6 s
e) none of the above

10. What is 6.72 x 10 ^ 5 g - 3.65 x 10 ^ 3 g?
DO THIS WITHOUT A CALCULATOR!
a) 668 350 g
b) 3.07 x 10 ^ 2 g
c) 6.68 x 10 ^ 2 g
d) 3.07 x 10 ^ 8 g
e) none of the above

Answer Key

1. (a)
2. (c)
3. (a)
4. (d)
5. (b)
6. (b)
7. (e)
8. (a)
9. (d)
10. (a)