**Scientific Notation Classwork #1**

**Converting to Standard Form & Scientific Notation**

1. $9.63 ×10^{-3}=$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. $5.1146 ×10^{3}=$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. $3.042 ×10^{2}=$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. $7.259 ×10^{4}=$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. $9.105×10^{-6}=$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. $2.8502 ×10^{-3}=$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. $4.172 ×10^{-5}=$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. $9.203 ×10^{-10}=$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. $2.1569 ×10^{8}=$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10. $5.18 ×10^{7}=$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

11. $6.0155 ×10^{-10}=$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

12. $7.042 ×10^{9}=$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. 360 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. 0.00091 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. 6,800,000= \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. 0.0058 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. 0.075 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. 18,569 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. 97 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. 0.000026 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. 18,451,000 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10. 0.000004826 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

11. 71,300,000 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

12. 0.0000642 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Fixing Improper Scientific Notation**

1. $56.3×10^{4}=$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. $0.952×10^{-5}=$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. $3400 ×10^{2}=$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. $0.73×10^{3}=$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. $14×10^{-7}=$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. $70.3×10^{1}=$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. $0.005×10^{6}=$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. $830,000×10^{2}=$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Ordering Scientific Notation**

Place the following numbers in order from least to greatest:

1. $7.8×10^{6}$, $5.1×10^{4}$, $1.25×10^{5}$, $4.09×10^{4}$

2. $4.7×10^{-8}$, $9.8×10^{4}$, $7.3×10^{-5}$, $4.0×10^{-5}$

3. $8.9×10^{-2}$, $344,000$, $9.2×10^{5}$, $0.00543$

4. $0.032$, $7.2×10^{5}$, $4,500$, $5.3×10^{-3}$

5. $6.8×10^{6}$, $6×10^{6}$, $6.6×10^{6}$, $6.1×10^{6}$

6. Which of these numbers is the least?

A. $3.5×10^{7}$ B. $3×10^{7}$ C. $5×10^{7}$ D. $5.5×10^{7}$

7. Which of these numbers is the least?

A. $7.0×10^{8}$ B. $7×10^{9}$ C. $7.1×10^{8}$ D. $7.1×10^{9}$

8. Which of these numbers is the least?

A. $9.0×10^{4}$ B. $1.2×10^{5}$ C. $3.01×10^{9}$ D. $1.901×10^{4}$

9. Which of these numbers is the greatest?

A. $9×10^{9}$ B. $9×10^{8}$ C. $8×10^{9}$ D. $8×10^{8}$

10. Which of these numbers is the greatest?

A. $5.25×10^{5}$ B. $5.55×10^{5}$ C. $2.55×10^{5}$ D. $5×10^{5}$

11. Which of these numbers is the greatest?

A. $5.406×10^{8}$ B. $5.604×10^{5}$ C. $5.04×10^{7}$ D. $6.504×10^{8}$

12. The diameter of the planet Mercury is , $4.87×10^{3}$ km. The diameter of the planet Venus is

 $1.21×10^{4}$ km. The diameter of Earth is $1.28×10^{4}$ km. The diameter of Mars $6.79×10^{3}$ km. Which planet has the smallest diameter?