1. A unit that is defined by a combination of base units is a(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. How many centimeters are in a meter? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. What scale provides the base unit for temperature in the SI system? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. The closeness of an experimental value to an accepted value is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. Which of the following is the SI base unit for amount of substance? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. How many milligrams are in one gram? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. What is the formula of slope? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. A measure of how close a series of data is to each other is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. Dimensional analysis is a method of problem-solving that focuses on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10. The data representation useful for showing parts of a fixed whole is a is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

11. Which is the SI unit for time? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

12. How many feet are in one mile? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

13. What axis does the dependent variable go on? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

14. What axis does the independent variable go on? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

15. How many pounds are in a kilogram? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

16. Convert 2.3 kg to g

17. Convert 50 °C to K

18. Convert 325 m to cm

19. Convert 123 pounds to kilograms

20. Convert 4 miles to feet

**Write the following numbers in scientific notation. Write the following numbers in standard notation.**

21. 4,502 26. 6.15 x 103

22. 0.0056 27. 3.16 x 10-5

23. 75,266 28. 8.81 x 106

24. 0.000333 29. 5.79 x 10-2

25. 725,353 30. 3.1 x 104