Name: _____

Date: _____ Grade: _____

SECTION QUIZ 5-2



Remember:
Score an 85% or higher on all three quizzes and you may be exempt from the chapter test!



Congratulations! You have completed this section!
Answer the following questions to test your understanding of the material. When you are finished, hand in your quiz to your teacher. Each answer is worth 2.4 points.

1. The _____ of a set of data is also known as the average.

2. The number that occurs most often in a set of data is the _____.

3. The _____ is the middle of a set of numbers placed in numerical order.

4. The _____ is calculated by subtracting the smallest data from largest data.

5. A set of numbers with two modes is called _____.

6. The mean is calculated by _____ the sum of all the data by the amount of data.

7. To find the median of a list of numbers, the numbers must first be arranged in _____ numerical order.

8. Which of the following lists of numbers is bimodal? _____
(a) 3, 5, 2, 4 (b) 1, 2, 3, 4, 5 (c) 9, 7, 5, 3, 1 (d) 2, 6, 6, 2

9. The number of zeros in the expanded power of ten (100, 1,000, 10,000 etc.) is the same as the value of the _____.

10. A _____ fraction is a fraction with a one in the numerator.

11. To add numbers written in scientific notation, you simply _____ the numeric portion, and leave the power of ten the same.

12. The rules for subtraction of numbers in scientific notation form is the same as addition, except you must _____ instead of add the numeric portions.

Find the mean, mode, median and range of the following lists of numbers (13-15).

13. {4, 13, 15, 4, 9}
mean _____
mode _____
median _____
range _____

14. {8, 4, 3, 3, 1, 5, 7, 9}
mean _____
mode _____
median _____
range _____

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15. {35, 35, 10, 12, 13, 11, 19, 15, 3}
mean _____
mode _____
median _____
range _____

16. Powers of _____ are used in scientific notation.

17. 10^{-5} = _____

18. 10^{4} = _____

19. Which number below is in proper scientific notation? _____
(a) 38.93×10^{4} (b) 456 (c) 2.98×10^{12} (d) 599999.9×10^{2}

Convert the following numbers to scientific notation.

20. 3,481 = _____

21. 3.521 = _____

Change the following numbers written in scientific notation to standard numerical form.

22. 5.87×10^{3} = _____

23. 8.33333×10^{2} = _____

24. 4.7245×10^{-4} = _____

25. 9.7×10^{-3} = _____

26. The distance of the Earth from the Sun is approximately 1,390,000 kilometers. Convert this distance into proper scientific notation and choose the closest answer from the list below. _____
(a) 1.39×10^{5} (b) 1.39×10^{7} (c) 1.39×10^{6} (d) 13.9×10^{5}

27. When adding numbers written in scientific notation, the powers of ten must be _____.

Add the following numbers. Be sure to write answers in proper scientific notation form or choose the answer from the list that best represents the answer.

28. $(22 \times 10^{4}) + 73$ = _____
(a) 2.20073×10^{5} (b) 95×10^{4} (c) 9.5×10^{5} (d) 2.20073×10^{4}

29. $(45.4 \times 10^{5}) + (4.56 \times 10^{3})$ = _____

Subtract the following numbers. Be sure to write answers in proper scientific notation form.

30. $(3.45 \times 10^{3}) - (3.24 \times 10^{2})$ = _____

31. $(26.432 \times 10^{4}) - (14.3 \times 10^{3})$ = _____
(a) 1.2132×10^{5} (b) 25.002×10^{4} (c) 2.5002×10^{5} (d) 2.5002×10^{4}

32. $(44.1 \times 10^{2}) \bullet (1.1 \times 10^{3})$ = _____

33. $(12.1 \times 10^{2})(2 \times 10^{4})$ = _____

34. The numeric equivalent must be _____ into scientific notation form.

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Multiply the following numbers. Write answers in proper scientific notation form.

35. $(8 \times 10^2)(1.5) =$ _____

36. $(3.2 \times 10^5)(2.0 \times 10^4) =$ _____

37. Convert the following to proper scientific notation form. $.94 \times 10^4 =$ _____ $\times 10^3$

Choose the answer that is the proper representation of the answer to the following problems.

38. $(4.8 \times 10^5) \div (1.2 \times 10^{-3})$ _____

(a) 4 (b) 4×10^8 (c) 400,000,000 (d) 3×10^8

39. $(6.48 \times 10^{-8}) \div (8 \times 10^{-10})$ _____

(a) 8×10^3 (b) $8.1 \times$ 1,390,000 km (c) 8.1×10^1 (d) $.81 \times 10^{-2}$

Match the following Life Principles.

40. _____ *"Strife causes division*

41. _____ *"A man has the power to make decisions*

42. _____ *"The greatest person is not found in the middle of the crowd.*

43. _____ *"Seek direction*

44. _____ *"When life gives you a handful of lemons,*

(a) *turn them into lemonade."*

(b) *from one who has already been there."*

(c) *that will change his life for the better."*

(d) *He stands apart."*

(e) *in the hearts of friends."*

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