Name: _____

Date: _____ Grade: _____

SECTION QUIZ 6-2



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 1.94 points.

Fill in the blank or choose the correct answer.

1. _____ is a shorthand method for writing very large or very small numbers.

2. The TI-83 will change numbers of more than _____ digits to scientific notation.

3. The calculator key marked (-) signifies a _____ number, not the operation of subtraction.

4. A(n) _____ (overdraft, credit, debit) is an attempt to draw money from a bank without enough money in your account.

5. A record of financial transactions is called a _____ (ledger, checkbook, diary).

6. The amount of money remaining in an account is called the _____ (credit, debit, balance) of the account.

7. Another word for *average* is the _____ (mean, mode, median, range).

8. If there are two modes in a list of data, the list is said to be _____.

9. To calculate averages, the sum of all the data must be _____ by the number of items added.

10. The *middle* of a data set is called the _____ (mean, mode, median, range).

11. The _____ is the number that occurs most often in the list of data (mean, mode, median, range).

12. To determine the _____ (mean, median, mode, range) of a data set, the smallest data must be subtracted from the largest.

13. With an even number of digits, the middle two numbers of a data set must be _____ (multiplied, averaged, divided) to calculate the median.

Work the following problems using your scientific calculator. Write the answer in proper scientific notation form on the blank provided.

14. $(4.321 \times 10^4) + (5.7 \times 10^5) - (5.888 \times 10^4) =$ _____

15. $(2.2 \times 10^{11}) + (2.111 \times 10^{13}) =$ _____

16. $(3.741 \times 10^8)(4.9045269 \times 10^{-7}) =$ _____

©Copyright 2005, Paradigm Accelerated Curriculum

DUPLICATION BY WRITTEN PERMISSION ONLY.

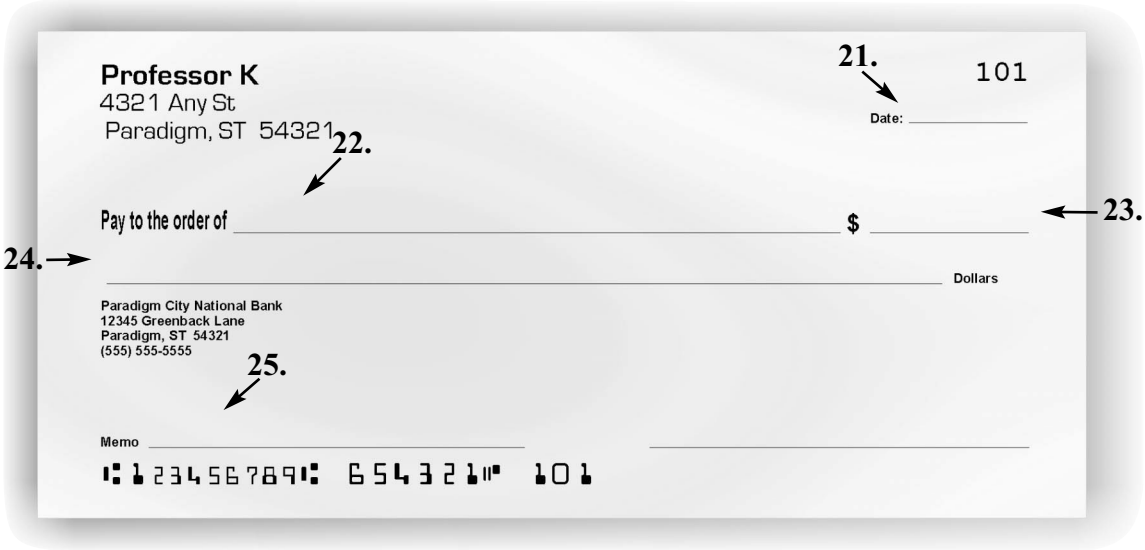
17. $\dfrac{(4.6\times10^{7})(3.75\times10^{4})}{4.6\times10^{7}} =$ _____

18. $\dfrac{(3.5\times10^{4})(6.75\times10^{-24})}{2.7\times10^{7}} =$ _____

19. The output of energy from the Sun is approximately 8.947×10^{8} calories per minute for each square meter. The number of calories generated by the Sun in one-half hour from one square meter is _____ calories. Be sure to express your answer in scientific notation form.

20. The distance of the Moon from the Earth is approximately 2.39×10^{5} miles. A spacecraft launched toward the Moon by NASA from Florida travels at a rate of 18,000 miles per hour. It will take the spacecraft _____ hours to reach the Moon. (Remember the distance formula, $d = rt \rightarrow t = d/r$.)

Help Professor K fill in the check below with the following information: to the PAC Electric Co. in the amount of $225.50 on January 5, 2002 for his electric bill at his house.



Use your calculator to determine the mean, mode, median and range in the following data sets. Write your answers on the blanks provided. Do not round the answers. (26-27)

26. {5, 3, 4, 6, 7, 8, 8, 10, 2}

mean _____ median _____ mode _____ range _____

27. {11, 19, 15, 20, 19, 30, 101, 13, 22}

mean _____ median _____ mode _____ range _____

28. The first Olympic Torch Relay, held during the 1936 Berlin Games (when the flame traveled from Olympia, Greece to Berlin, Germany) lasted 12 days and covered 1,910 miles across seven countries. Calculate the average number of miles covered each day if the flame had been carried in only 9 days _____.

29. If 120 torchbearers carried the flame about 208 miles over the course in 12 hours, then the average number of miles each torchbearer carried the torch was _____.

Table 1

Length

one inch (in.)	=	2.54 centimeters (cm)
one mile (mi)	=	1.609344 kilometers (km)
one yard (yd)	=	0.9144 meter (m)
one meter (m)	=	39.3708 inches (in.)

Refer to Table 1 and to what you already know to make the following conversions with the aid of your calculator. Use the space provided to set up the conversions properly.

30. 12 inches = _____ foot

31. 6 feet = _____ yard

32. 4 meter = _____ inches

33. 80 yards = _____ meters

34. Conversions are set up so that units _____ out by placing them in the appropriate places in the numerator and denominator.

©Copyright 2005, Paradigm Accelerated Curriculum

DUPLICATION BY WRITTEN PERMISSION ONLY.

SECTION QUIZ 6-2

Refer to Table 1 to make the following conversions with the aid of your calculator. Use the space provided to set up the conversions properly.

35. 2 meter = _____ cm

36. 6 in = _____ cm

37. 36.575 meters = _____ inches

38. One mile = _____ km

39. 254 cm = _____ ft

40. 4 yds = _____ meters

41. A runner at a track meet ran the mile in 4.5 minutes. Calculate how many kilometers per hour the runner ran the mile. _____

©Copyright 2005, Paradigm Accelerated Curriculum

DUPLICATION BY WRITTEN PERMISSION ONLY.

Table 2

Area

square centimeter	=	0.155000 sq in.
square meter	=	10.763910 sq ft
square inch	=	645.16 sq mm
square foot	=	0.09290304 sq meter
square yard	=	0.836127 sq meter
one sq ft	=	144 sq in.

Refer to Table 2 to make the following conversions with the aid of your calculator. Use the space provided to set up the conversions properly.

42. 2 sq foot = _____ sq in.

43. 1.55000 sq in. = _____ sq cm

44. The formula for the area of a rectangle is A = _____.

45. 1 sq meter = _____ sq ft

46. A sheet of copy paper is 11 inches long and 8.5 inches wide. The area in inches of a sheet of copy paper is _____ sq in.

47. The area of a sheet of copy paper in square millimeters is _____ sq mm.

48. In the local real estate guide the square footage of a house was listed as 2000 sq ft. Calculate the area of the house in square meters. _____

©Copyright 2005, Paradigm Accelerated Curriculum

DUPLICATION BY WRITTEN PERMISSION ONLY.

SECTION QUIZ 6-2

Match the following Life Principles.

49. _____	*"How much you get out of life,*	(a) *and feel with their own hearts."*
50. _____	*"While in the middle of a situation,*	(b) *depends on how much you put into life."*
51. _____	*"The degree to which we are thankful*	(c) *begins with a single step."*
52. _____	*"A journey of a thousand miles,*	(d) *checkout the range of solutions."*
53. _____	*"Small is the number of them that see with their own eyes*	(e) *is a sure measure of our emotional and spiritual health."*

©Copyright 2005, Paradigm Accelerated Curriculum

DUPLICATION BY WRITTEN PERMISSION ONLY.