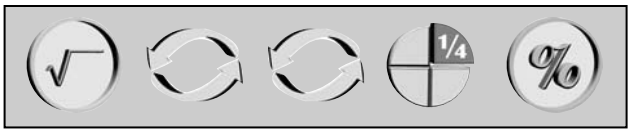
Name: _____

Date: _____ Grade: _____

SECTION QUIZ 3-3



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 1.8 points.

Fill in the blank and work the problems.

1. Cubes are used in relationship to _____.

2. The principal square root of a number is always a _____ whole number.

3. The cube root of a negative number is always _____.

4. A cube has _____ equal factors or roots.

5. Cube roots are used to find the length of the _____ of a cube.

6. The cube root of 8 is _____.

7. The cube root of -8 is _____.

8. The cube root of 216 is _____.

9. $\sqrt[3]{-1}$ = _____

10. $\sqrt[3]{1}$ = _____

11. $\sqrt[3]{216}$ = _____

12. A storage crate used by the Red Cross to ship medical supplies wherever needed in time of disaster will hold a volume of 64 cubic feet. If the crate is in the shape of a cube, what is the length of each edge of the crate? _____

13. Calculate the length of one edge of a cube with a volume of 125 cubic inches. _____

SECTION QUIZ 3-3

14. Weight is with how much force an object is being pulled toward the center of the earth by _____.

Work the following weight conversions in the English System for #15-20. Use the space provided to set up your calculations. Write your answer in the blank.

15. 16 oz = _____ lb

16. 1 ton = _____ lbs

17. 32 oz = _____ lbs

18. 256 oz = _____ lbs

19. 80,000 lbs = _____ tons

20. _____ lbs = 2 tons

21. The basic unit of measurement for weight in the Metric System is the _____.
(a) meter (b) gram (c) liter (d) pound

22. To describe weight, length or volume in the Metric System, different _____, or "word beginnings," are added to the various units.

23. kilo- means _____.

24. deci- means _____.

25. milli- means _____.

Work the following conversions in the Metric System. Remember to use the Directional Method of Converting.

26. 16 kg = _____ mg

27. 1000 g = _____ kg

28. 60 cg = _____ g

29. 8 kg = _____ cg

30. 4 g = _____ mg

SECTION QUIZ 3-3

Work the English System length and volume conversions for #31-39.

31. 1 T = _____ tsp

32. 1760 yds = _____ mile

33. _____ yds = one-fourth of a mile

34. _____ feet = 1 mile

35. $^{3}/_{4}$ gal = _____ pints

36. $^{1}/_{4}$ mile = _____ feet

37. Professor K took a trip to Flagstaff, AZ. The trip was 2000 miles in length. Professor K purchased 100 gallons of gasoline during the trip. How many miles per gallon (mpg) did Professor K's car obtain during the trip? _____

38. Many pickup trucks are rated as $^{1}/_{2}$ ton trucks. These trucks can legally haul _____ ounces.

39. $^{1}/_{2}$ gal = _____ cups

40. A _____ is the money remaining after all expenses have been paid.
(a) profit (b) loss (c) interest (d) term

41. The _____ of a loan is the amount of time given to pay the loan back.
(a) profit (b) loss (c) interest (d) term

42. If a loan has a longer term, the payments are usually _____.
(a) larger (b) smaller (c) the same (d) deferred

43. The formula for computing simple interest is _____.

44. The _____ is the original amount of money loaned or invested.

45. To calculate the monthly payment you must _____ the total amount to be repaid ($A = P + I$) by the total number of months in the term of the loan.
(a) add (b) subtract (c) multiply (d) divide

SECTION QUIZ 3-3

Calculate the simple interest from the information provided for #46-50. Show your work and write the answers on the blanks.

46. P = \$5,000.00, r = 4%, t = 2 years _____

47. P = \$50,000.00, r = 2%, t = 2 years _____

48. P = \$25,000.00, r = 5%, t = 3 years _____

49. A local bank advertised new car loans for 4 years at 5% interest. Calculate the simple interest on a loan of \$20,000.00. _____

50. Professor K loaned a friend some money. The friend insisted on paying Professor K some interest on the loan. Professor K only charged 2% on a loan of \$1,000.00 for one year to his friend. Calculate the total amount Professor K's friend paid Professor K at the end of one year. _____

Match the Life Principles.

51. _____ *"Every problem has a root cause.*

52. _____ *"Making the right choices*

53. _____ *"Your interests are*

54. _____ *"A good man is*

55. _____ *"Be responsible for yourself and your actions.*

(a) *gives direction for your life."*

(b) *the sum of courage and kindness."*

(c) *Find it, fix it, and life will be much easier."*

(d) *a reflection of who and what you are."*

(e) *Take pride in what you do."*