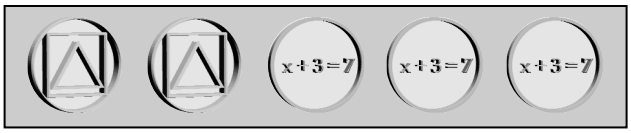
SECTION QUIZ 4-3

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 2.0 points.

1. How much space a solid occupies or how much a shape can hold is called its capacity or _____.

2. The formula for calculating the volume of a rectangular prism is _____=_____.

3. The bases of an octagonal prism are _____ (square, parallel).

4. Volume is often given in _____ units.

Matching

5. _____ $V = {}^{4}/_{3}\pi r^3$ (a) volume of a cone

6. _____ $V = {}^{1}/_{3}lwh$ (b) volume of a sphere

7. _____ $V = {}^{1}/_{3}\pi r^2 h$ (c) volume of a cylinder

8. _____ $V = {}^{1}/_{2}bhl$ (d) volume of a triangular prism

9. _____ $V = \pi r^2 h$ (e) volume of a pyramid

Calculate the volumes of the following shapes. Use 3.14 = π where needed. Show your work in the space provided and place your answer on the blank for #10-13.

10. The volume of a sphere with a radius of 1 meter. _____

11. The volume of a square pyramid with a 6' base and height of 8'. _____

12. The volume of a cone with a radius of 1 inch and a height of 4 inches. _____

©Copyright 2005, Paradigm Accelerated Curriculum

DUPLICATION BY WRITTEN PERMISSION ONLY.

SECTION QUIZ 4-3

13. The volume of a triangular prism with a width of 4 inches, a height of 2 inches and a length of 10 inches. _____

14. Write the distance formula mathematically: _____.

15. _____ terms contain the same unknown.

16. When solving an equation, only _____ terms can be combined.

17. Many equations contain more than _____ unknown.

18. The set of all the solutions to a problem is called the _____ set.

19. The unknown must be _____ on one side of the equal sign.
(a) combined (b) isolated (c) added (d) subtracted

20. Exactly what is done to one side of an equation must be done to the other side. _____
(a) True or (b) False

21. The symbols, { }, denote a _____.

22. To move a term from one side of the equals sign to the other requires the _____ operation to be performed.

23. The unknown is usually placed on the _____ side of the equation.

24. The solution to a problem should be placed in _____ symbols.

Solve the following equations for *x*. Place the solution within set symbols on the blank provided. Show your work in the space provided for each problem.

25. $x + 2 = 8$ _____

26. $x - 4 = 13$ _____

27. $3x = 39$ _____

28. $\frac{x}{4} = 4$ _____

©Copyright 2005, Paradigm Accelerated Curriculum

DUPLICATION BY WRITTEN PERMISSION ONLY.

29. $5x + 2 = 22$ _____

Solve the following equations for the unknown indicated. Place your answer on the blank provided. Show your work in the space provided for each problem.

30. Solve, $P = 2w + 2l$ for l. $l =$_____

31. Solve, $V = \frac{4}{3}\pi r^3$ for r^3. $r^3 =$ _____

On the blank, write "like" if the terms are like, or "unlike" if the terms are unlike.

32. 4, 6, 8, 12 _____

33. x, y, $2x$ _____

34. x, $6x$, $45x$ _____

35. xy, $2xy$ _____

36. x^2, $5x^2$, x^3 _____

37. 4, $4x$, 6 _____

Solve each of the following equations for *x*. Show your work in the space provided and write your answer within solution set symbols on the blank.

38. $2x + 1 = x + 4$ _____

39. $6x - 3 = 3x + 6$ _____

40. $5 - 4x = 6 - 5x$ _____

©Copyright 2005, Paradigm Accelerated Curriculum

DUPLICATION BY WRITTEN PERMISSION ONLY.

41. $3x + 20 - x = 40 - 3x$ _____

42. $2x - 2 = x$ _____

43. $15x - 5 = 15 - 5x$ _____

44. $4x + 3 - 3x = 6$ _____

45. $x - 7 = 8 - 2x$ _____

Matching

46. _____ *"Adding positive factors to life*

47. _____ *"Sometimes the best formula for facing the unknown*

48. _____ *"Do unto others as you*

49. _____ *"The things with which you fill your life*

50. _____ *"Your speech and actions*

(a) *is faith and truth."*

(b) *help determine who and what you will become."*

(c) *speak volumes about your character."*

(d) *cancels many negative features."*

(e) *would have them do unto you."*

©Copyright 2005, Paradigm Accelerated Curriculum

DUPLICATION BY WRITTEN PERMISSION ONLY.