

Chapter 1 Test, Form 2C

For Questions 1 and 2, write an algebraic expression for each verbal expression.

1. the sum of the square of a number and 34

1. _____

2. the product of 5 and twice a number

2. _____

3. Write a verbal expression for $4n^3 + 6$.

3. _____

4. Evaluate $2^3[(15 - 7) \div 2]$.

4. _____

5. Evaluate $3w + (8 - v)t$ if $w = 4$, $v = 5$ and $t = 2$.

5. _____

6. Find the solution of $5b - 13 = 22$ if the replacement set is $\{5, 6, 7, 8, 9\}$.

6. _____

7. Solve $\frac{6 + 3^2(4)}{7 - 1} = y$.

7. _____

8. Find the solution set for $2(6 - x) < 10$ if the replacement set is $\{0, 1, 2, 3, 4\}$.

8. _____

For Questions 9 and 10, name the property used in each equation. Then find the value of n .

9. $5 + 0 = n$

10. $7 + (4 + 6) = 7 + n$

9. _____

10. _____

11. Evaluate $4(5 \cdot 1 \div 20)$. Name the property used in each step.

11. _____

12. Rewrite $3(14 - 5)$ using the Distributive Property. Then simplify.

12. _____

Simplify each expression.

13. $15w - 6w + 14w^2$

14. $7(2y + 1) + 3y$

13. _____

14. _____

For Questions 15 and 16, evaluate each expression.

15. $32 + 5 + 8 + 15$

16. $\frac{1}{3} \cdot 4 \cdot 9 \cdot \frac{1}{2}$

15. _____

16. _____

17. Identify the hypothesis and conclusion of the following statement.

I will attend football practice on Monday.

17. _____

18. Find a counterexample for the following statement.

If the sum of two numbers is odd, then the two numbers are odd numbers.

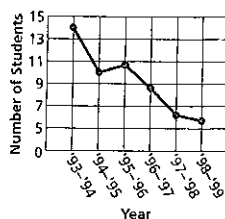
18. _____

Assessment

1 Chapter 1 Test, Form 2C (continued)

19. The line graph shows the number of students per computer in U.S. public schools. Explain how the graph can be fixed so it is not misleading.

Students per Computer in U.S. Public Schools



Source: World Almanac

19. _____

Use the table that shows the percent of students enrolled in private schools.

School Year	Percent Enrolled
1959-60	16.1
1969-70	12.1
1979-80	12.0
1989-90	11.7
1999-00	11.3

Source: World Almanac

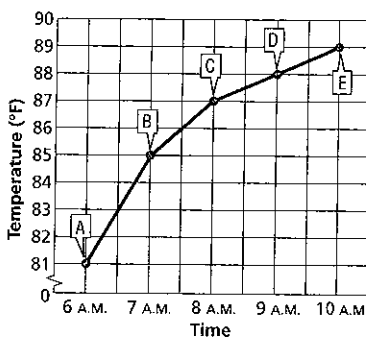
20. Between what two consecutive school years did the percent change the most?

20. _____

21. Describe the trend in enrollment in private schools since 1959.

21. _____

Use the graph that shows temperature as a function of time.



22. Identify the independent and dependent variables.

22. _____

23. Name the ordered pair at point C and explain what it represents.

23. _____

For Questions 24 and 25, use the table that shows 2001 airmail letter rates to Greenland.

Weight (oz)	Rate (\$)
5.0	4.80
6.0	4.80
7.0	5.60
8.0	6.40

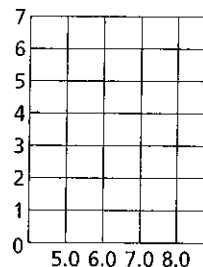
Source: World Almanac

24. Write the data as a set of ordered pairs.

24. _____

25. Draw a graph that shows the relationship between the weight of a letter sent airmail and the total cost.

25. _____



Bonus Use grouping symbols, exponents, and symbols for addition, subtraction, multiplication, and division with the digits 1, 9, 8, and 7 (in that order) to form expressions that will yield each value.

B: a. _____

b. _____

c. _____

- a. 6 b. 7 c. 9