Name: _____

Date: _____ Grade: _____

SECTION QUIZ 6-1



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 2.5 points.

Multiply the following monomials. Show your work and write your answers on the blanks.

1. $3x(2x) =$ _____

2. $11z(9z) =$ _____

3. $3a(2a^2) =$ _____

4. $2x(2x)(2x) =$ _____

5. $4y(3y)(2y) =$ _____

6. $z(2z^2)(3z^3) =$ _____

Multiply the following monomials and binomials. Show your work and write your answers on the blanks.

7. $3x(3x + 1) =$ _____

8. $5x(x + 3) =$ _____

9. $7x(2x + 4) =$ _____

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10. $2x(2x^2 + 3x) =$ _____

11. $4x(x^2 + 2x) =$ _____

Multiply the following monomials and trinomials. Show your work and write your answers on the blanks.

12. $2x(a + b + c) =$ _____

13. $x(4a + 2b + 3c) =$ _____

14. $3a(2a + 7b + 5c) =$ _____

15. $2x(3a + 10b + 4c) =$ _____

16. $x(3x^2 + 8x + 6) =$ _____

17. Multiply the monomial by the polynomial of four terms.

$2x(a + 2b + c - 3d) =$ _____

Multiply the following binomials using FOIL. Show your work and write your answers on the blanks (18-22).

18. $(2x + 1)(2x + 1) =$_____

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19. $(5x + 2)(x + 2) =$ _____

20. $(x + 1)(2x + 4) =$ _____

21. $(4x + 2)(3x - 1) =$ _____

22. $(2x + 3)(4x + 5) =$ _____

Multiply the binomial by the trinomial for 23-24.

23. $(x + 3)(a + b + c) =$ _____

24. $(2x + 1)(3a + 2b + 1) =$ _____

Divide the following polynomials. Show your work and write your answers on the blanks. Be sure to reduce your answers (25-30).

25. $(4x^2 + 2x) \div x =$ _____

26. $(8x^3 + 6x) \div 2x =$ _____

27. $(50x^2 + 5x) \div 5x =$ _____

(a) $10x + 1$ (b) $5x + 1$ (c) $10x$ (d) $250x^3 + 25x^2$

28. $(15x^4 + 12x^3) \div 3x^3 =$ _____

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29. $(8x^4 - 4x^2 + 2) \div (2) =$ _____

30. $(35x^3 + 25x^2 + 5x) \div (5x) =$ _____

31. Use long division to calculate the quotient. Show your work. $393 \div 3 =$ _____

Determine the quotient of the following polynomials.

32. $(9x + 12) \div 3 =$ _____

33. $(4x + 16) \div 4 =$ _____

34. $(10x^3 - 20x^2 + 30x) \div (5x) =$ _____

(a) $2x^3 - 4x^2 + 6x$ (b) $2x - 4$ (c) $2x^2 - 4x + 6$ (d) $50x^4 - 100x^3 + 150x^2$

35. $(8x^3 + 6x^2 + 10x - 4) \div (2) =$ _____

Match the following Life Principles.

36. _____ *"He who goes the wrong road*	(a) *but work gives satisfaction."*
37. _____ *"By asking for the impossible*	(b) *and the last to the couch."*
38. _____ *"Be the first to the field*	(c) *others will esteem thee."*
39. _____ *"As thou valuest thyself,*	(d) *we obtain the possible."*
40. _____ *"Laziness may appear attractive,*	(e) *must go the journey twice over."*

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