Variables and Expressions Assignment

Write an algebraic expression for each verbal expression.

- 1. One-fourth the cube of x
- 2. The ratio between m and v
- 3. The product of w and h
- 4. Six more than two times a number
- 5. Three times the quantity eight plus x
- 6. Nine divided by x
- 7. **n** plus five squared
- 8. Four divide by a number

Find each value.

- 9. **15**³
- 10. **3**⁵
- 11. **10**⁴
- 12. **7**²

Write a verbal expression for each algebraic expression.

- 13. 27 2x
- 14. $3x^2 + 4$
- 15. **15***y*
- 16. $3x^2 2x$
- 17. **5**⁴
- 18. 6x 2
- 19. 2x + 16
- 20. $4 \div n$

Name: ______ Period: _____ Date: _____

Variables and Expressions Assignment

ANSWER | Write an algebraic expression for each verbal expression.

1. One-fourth the cube of $x = \frac{1}{4}x$

2. The ratio between m and $v = \frac{m}{v}$

3. The product of w and h = $w \cdot h$

4. Six more than two times a number = 6 + 2x

5. Three times the quantity eight plus x = 3(8 + x)

6. Nine divided by $x = \frac{9}{x}$

7. n plus five squared $= n + 5^2$

8. Four divide by a number $=\frac{4}{x}$

Find each value.

9. $15^3 = 15 \cdot 15 \cdot 15$ = 3375

10. $3^5 = 3 \cdot 3 \cdot 3 \cdot 3 = 243$

11. $10^4 = 10 \cdot 10 \cdot 10 \cdot 10 = 10 \ 000$

12. $7^2 = 7 \cdot 7 = 49$

Write a verbal expression for each algebraic expression.

13. 27 - 2x = the difference of twenty seven and twice a number x

14. $3x^2 + 4$ = three times x squared plus four

15. 15y = fifteen times y

16. $3x^2 - 2x$ = three times x squared minus twice a number x

17. **5**⁴ = five to the fourth power

18. 6x - 2 = six times x minus two

19. 2x + 16 = twice a number x plus sixteen

20. $\mathbf{4} \div \mathbf{n}$ = four divided by \mathbf{n}