

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

Variables and Expressions Assignment

ANSWER | Write an algebraic expression for each verbal expression.

1. One-fourth the cube of x $= \frac{1}{4}x^3$

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

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. $4 \div n$ = four divided by n