NAME

Module 2 Writing and Simplifying Algebraic Expressions

Lesson 2 Translating Word Phrases into Algebraic Expressions

Write an algebraic expression for the following. Any letter may be used to write an expression for the phrase "some number" or "a number".

1. 6 more than a number

$N + 6$

2. the sum of 3 and some number

$3 + x$

3. 9 less than y

$y - 9$

4. m minus 7

$m - 7$

5. twice some number

$2x$

6. the product of –5 and t

$-5t$

7. one-third of N

$\frac{1}{3}N$

8. half of q

$\frac{1}{2}q$

9. 45 more than three-fifths of z

$\frac{3}{5}z + 45$

10. 7 less than the product nine times a number

$9r - 7$

11. triple the difference c minus 13

$3(c - 13)$

12. 79 less than the square of b

$b^2 - 79$

13. twice a number added to the cube of the number

$N^3 + 2N$

14. three less than five times W

$5W - 3$

15. 8 less than the quotient D divided by –4

$\frac{D}{-4} - 8$

16. the sum of v and 12 divided by two

$\frac{v + 12}{2}$

17. five-sevenths of the square of y

$\frac{5}{7}y^2$

18. two-thirds the sum of p and 15

$\frac{2}{3}(p + 15)$

19. 23 added to –7 times a number

$-7n + 23$

20. –7 times a number cubed divided by 12

$\frac{-7x^3}{12}$