Algebraic Notation Worksheet

Multiple Choice Questions

Which of the following is the correct algebraic notation for "the sum of ${f x}$	and 7"?
n) x - 7	
(x) $(x + 7)$	
r) 7x	
d) x ÷ 7	

What does the expression 5y mean?

- a) 5 divided by yb) 5 plus y
- c) 5 times y
- d) 5 minus y

Which of the following represents "three more than twice a number n"?

- a) 2n 3
- b) 3n + 2
- c) 2n + 3
- d) 3n 2

What is the algebraic expression for "the difference between a and 4"?

- a) a + 4
- b) 4 a
- c) a 4
- d) 4a

Which expression means "the product of m and 8"?

- a) m + 8
- b) m ÷ 8
- c) 8m
- d) m 8

What does the expression x/3 represent?

- a) x times 3
- b) x plus 3
- c) x divided by 3
- d) 3 minus x

Which of the following is the correct notation for "four less than y"?

- a) 4 y
- b) y 4
- c) 4y
- d) y + 4

What does 2(a + 5) mean?

- a) 2 times a plus 5
- b) 2 times the sum of a and 5
- c) 2 plus a plus 5
- d) 2 divided by a plus 5

Which expression shows "half of b"?

- a) 2b
- b) b/2
- c) b + 2
- d) b 2

What is the algebraic notation for "the quotient of t and 9"?

- a) t + 9
- b) t 9
- c) t/9
- d) 9t

Which of the following means "x squared"?

- a) 2x
- b) x^2
- c) x + x
- d) x/2

What does the expression 7 - y represent?

- a) y less than 7
- b) 7 more than y
- c) y times 7
- d) 7 divided by y

Which is the correct notation for "the sum of twice p and 6"?

- a) 2p + 6
- b) p + 6
- c) 2p 6
- d) p 6

What is the algebraic expression for "five decreased by n"?

- a) n 5
- b) 5 + n
- c) 5 n
- d) n + 5

Which expression means "the square of the sum of x and 2"?

- a) $x^2 + 2$
- b) $(x + 2)^2$
- c) $x^2 + 4$
- d) $x + 2^2$

What does the expression 4(x-1) mean?

- a) 4 minus x minus 1
- b) 4 times x minus 1
- c) 4 times the difference between x and 1
- d) 4 plus x minus 1

What is the algebraic notation for "the product of 6 and the difference of y and 3"?

- a) 6 + (y 3)
- b) 6(y 3)
- c) 6y 3
- d) y 3 + 6

Which expression shows "three times the sum of a and b"?

- a) 3a + b
- b) 3(a + b)
- c) 3a + 3b
- d) a + b + 3

What does the expression (k/2) + 7 mean?

- a) k divided by 2 plus 7
- b) k times 2 plus 7
- c) k plus 2 plus 7
- d) k divided by (2 plus 7)

Answer Key

- 1. b) x + 7
- 2. c) 5 times y
- 3. c) 2n + 3
- 4. c) a 4
- 5. c) 8m
- 6. c) x divided by 3
- 7. b) y 4
- 8. b) 2 times the sum of a and 5
- 9. b) b/2
- 10. c) t/9
- 11. b) x^2
- 12. a) y less than 7
- 13. a) 2p + 6
- 14. c) 5 n
- 15. b) $(x + 2)^2$
- 16. c) 4 times the difference between x and 1
- 17. b) 6(y 3)
- 18. b) 3(a + b)
- 19. a) k divided by 2 plus 7