

Algebraic Notation Worksheet

Multiple Choice Questions

Which of the following is the correct algebraic notation for "the sum of x and 7"?

- a) $x - 7$
- b) $x + 7$
- c) $7x$
- d) $x \div 7$

What does the expression $5y$ mean?

- a) 5 divided by y
- b) 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) $4a$

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

- a) $m + 8$
- b) $m \div 8$
- 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) $b - 2$

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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) $n + 5$

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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