

Grade 7 Pre-Algebra Worksheet

Name: _____ Date: _____ Score: _____

Solve for the variable. Write your answer on the line.

- | | | |
|--|---|--|
| 1. Simplify: $6x + 2x$
_____ | 2. Simplify: $5x + 1x$
_____ | 3. Evaluate $x^2 + 9$ when $x = 9$
_____ |
| 4. Solve: $x + 17 = 27$
_____ | 5. Evaluate $x^2 + 10$ when $x = 7$
_____ | 6. Simplify: $4x + 3x$
_____ |
| 7. Simplify: $3x + 2x$
_____ | 8. If $x + 4 < 12$, and x is a positive integer, what is the largest possible value of x ?
_____ | 9. Evaluate $x^2 + 10$ when $x = 5$
_____ |
| 10. Evaluate $2x + 4$ when $x = 9$
_____ | 11. Simplify: $5x + 5x$
_____ | 12. Solve: $x + 19 = 25$
_____ |
| 13. If $x + 10 < 13$, and x is a positive integer, what is the largest possible value of x ?
_____ | 14. If $x + 8 < 20$, and x is a positive integer, what is the largest possible value of x ?
_____ | 15. Evaluate $x^2 + 5$ when $x = 2$
_____ |
| 16. Simplify: $5x + 2x$
_____ | 17. If $x + 9 < 24$, and x is a positive integer, what is the largest possible value of x ?
_____ | 18. Evaluate $2x + 5$ when $x = 9$
_____ |
| 19. Evaluate $x^2 + 7$ when $x = 5$
_____ | 20. If $x + 9 < 15$, and x is a positive integer, what is the largest possible value of x ?
_____ | 21. Evaluate $4x + 5$ when $x = 6$
_____ |

22. Simplify: $7x + 5x$

23. If $x + 3 < 10$, and x is a positive integer, what is the largest possible value of x ?

24. Evaluate $x^2 + 3$ when $x = 2$

25. Evaluate $4x - 2$ when $x = 9$

26. Simplify: $5x + 7x$

27. Simplify: $2x + 3x$

28. Simplify: $3x + 4x$

29. If $x + 8 < 17$, and x is a positive integer, what is the largest possible value of x ?

30. Solve: $4x = 44$

ANSWER KEY

Grade 7 Pre-Algebra Worksheet

- Simplify: $6x + 2x$
8x
- Simplify: $5x + 1x$
6x
- Evaluate $x^2 + 9$ when $x = 9$
90
- Solve: $x + 17 = 27$
10
- Evaluate $x^2 + 10$ when $x = 7$
59
- Simplify: $4x + 3x$
7x
- Simplify: $3x + 2x$
5x
- If $x + 4 < 12$, and x is a positive integer, what is the largest possible value of x ?
10
- Evaluate $x^2 + 10$ when $x = 5$
35
- Evaluate $2x + 4$ when $x = 9$
22
- Simplify: $5x + 5x$
10x
- Solve: $x + 19 = 25$
6
- If $x + 10 < 13$, and x is a positive integer, what is the largest possible value of x ?
12
- If $x + 8 < 20$, and x is a positive integer, what is the largest possible value of x ?
17
- Evaluate $x^2 + 5$ when $x = 2$
9
- Simplify: $5x + 2x$
7x
- If $x + 9 < 24$, and x is a positive integer, what is the largest possible value of x ?
19
- Evaluate $2x + 5$ when $x = 9$
23

19. Evaluate $x^2 + 7$ when $x = 5$
32
20. If $x + 9 < 15$, and x is a positive integer, what is the largest possible value of x ?
13
21. Evaluate $4x + 5$ when $x = 6$
29
22. Simplify: $7x + 5x$
12x
23. If $x + 3 < 10$, and x is a positive integer, what is the largest possible value of x ?
10
24. Evaluate $x^2 + 3$ when $x = 2$
7
25. Evaluate $4x - 2$ when $x = 9$
34
26. Simplify: $5x + 7x$
12x
27. Simplify: $2x + 3x$
5x
28. Simplify: $3x + 4x$
7x
29. If $x + 8 < 17$, and x is a positive integer, what is the largest possible value of x ?
13
30. Solve: $4x = 44$
11