

Grade 6 Pre-Algebra Worksheet

Name: _____ Date: _____ Score: _____

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

- | | | |
|--|---|--|
| 1. Solve: $x + 7 = 9$
_____ | 2. Simplify: $6x + 7x$
_____ | 3. Simplify: $3x + 8x$
_____ |
| 4. Evaluate $4x + 6$ when $x = 7$
_____ | 5. Simplify: $8x + 6x$
_____ | 6. Simplify: $6x + 4x$
_____ |
| 7. If $x + 10 < 17$, and x is a positive integer, what is the largest possible value of x ?
_____ | 8. Solve: $x + 19 = 31$
_____ | 9. Simplify: $8x + 2x$
_____ |
| 10. Solve: $5x = 40$
_____ | 11. Solve: $x + 6 = 16$
_____ | 12. Solve: $4x = 20$
_____ |
| 13. If $x + 10 < 24$, and x is a positive integer, what is the largest possible value of x ?
_____ | 14. Simplify: $4x + 8x$
_____ | 15. Evaluate $2x + 2$ when $x = 6$
_____ |
| 16. Simplify: $6x + 8x$
_____ | 17. If $x + 6 < 17$, and x is a positive integer, what is the largest possible value of x ?
_____ | 18. Evaluate $x^2 + 9$ when $x = 3$
_____ |
| 19. Evaluate $4x + 7$ when $x = 4$
_____ | 20. Evaluate $x^2 + 10$ when $x = 3$
_____ | 21. Simplify: $2x + 6x$
_____ |
| 22. Simplify: $8x + 8x$ | 23. Simplify: $7x + 5x$ | 24. |

If $x + 7 < 14$, and x is a positive integer, what is the largest possible value of x ?

25. Evaluate $x^2 + 9$ when $x = 2$

26. Simplify: $5x + 3x$

27. Evaluate $5x - 9$ when $x = 2$

28. Solve: $x + 14 = 29$

29. Solve: $x + 6 = 21$

30. Evaluate $3x - 8$ when $x = 10$

ANSWER KEY

Grade 6 Pre-Algebra Worksheet

- Solve: $x + 7 = 9$
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- Simplify: $6x + 7x$
 $13x$
- Simplify: $3x + 8x$
 $11x$
- Evaluate $4x + 6$ when $x = 7$
34
- Simplify: $8x + 6x$
 $14x$
- Simplify: $6x + 4x$
 $10x$
- If $x + 10 < 17$, and x is a positive integer, what is the largest possible value of x ?
19
- Solve: $x + 19 = 31$
12
- Simplify: $8x + 2x$
 $10x$
- Solve: $5x = 40$
8
- Solve: $x + 6 = 16$
10
- Solve: $4x = 20$
5
- If $x + 10 < 24$, and x is a positive integer, what is the largest possible value of x ?
21
- Simplify: $4x + 8x$
 $12x$
- Evaluate $2x + 2$ when $x = 6$
14
- Simplify: $6x + 8x$
 $14x$
- If $x + 6 < 17$, and x is a positive integer, what is the largest possible value of x ?
15
- Evaluate $x^2 + 9$ when $x = 3$
18
- Evaluate $4x + 7$ when $x = 4$
23
- Evaluate $x^2 + 10$ when $x = 3$
19
- Simplify: $2x + 6x$
 $8x$
- Simplify: $8x + 8x$
 $16x$
- Simplify: $7x + 5x$
 $12x$
- If $x + 7 < 14$, and x is a positive integer, what is

the largest possible value of x ?

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25. Evaluate $x^2 + 9$ when $x = 2$

13

26. Simplify: $5x + 3x$

$8x$

27. Evaluate $5x - 9$ when $x = 2$

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28. Solve: $x + 14 = 29$

15

29. Solve: $x + 6 = 21$

15

30. Evaluate $3x - 8$ when $x = 10$

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