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 $5x \quad 9$ when $x = 2$

_____

28. Solve: $x + 14 = 29$

_____

29. Solve: $x + 6 = 21$

_____

30. Evaluate $3x \quad 8$ when $x = 10$

_____

ANSWER KEY

Grade 6 Pre-Algebra Worksheet

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

22. Simplify: 8x + 8x

16x

23. Simplify: 7x + 5x

12x

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

11

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

13

26. Simplify: 5x + 3x

8x

27. Evaluate 5x 9 when x = 2

1

28. Solve: x + 14 = 29

15

29. Solve: x + 6 = 21

15

30. Evaluate 3x 8 when x = 10

22