

Grade 6 Expressions & Equations Mixed Review

Expressions & Equations • Grade 6 • Mixed Review • Set A • CCSS 6.EE.2

Name: _____

Date: _____

Solve each problem. Read carefully — the problems change shape as you go.

1. Solve: $x + 4 = 6$

2. Evaluate $6x + 9$ when $x = 2$.

3. Simplify: $-6x + 3 + 5x + (-5)$

4. $4^2 =$

5. Solve: $x \div 8 = 3$

6. Evaluate $8x - 11$ when $x = 9$.

7. Simplify: $-3x + (-1) + 8x + (-4)$

8. $2^3 =$

9. Solve: $x + 2 = 19$

10. Evaluate $x^2 + 12$ when $x = 5$.

11. Simplify: $-2x + (-1) + (-8)x + 1$

12. $5^3 =$

13. Solve: $8x = 32$

14. Evaluate $4x - 3$ when $x = 9$.

15. Simplify: $1x + 4 + (-8)x + (-4)$

16. $6^3 =$

17. Solve: $x \div 7 = 6$

18. Evaluate $x^2 + 5$ when $x = 5$.

19. Simplify: $-4x + (-3) + (-2)x + 1$

20. $2^2 =$

21. Solve: $x \div 4 = 8$

22. Evaluate $5x - 2$ when $x = 3$.

23. Simplify: $3x + 2 + (-3)x + (-3)$

24. $7^3 =$

25. Solve: $x + 15 = 29$

26. Evaluate $x^2 + 19$ when $x = 7$.

27. Simplify: $-5x + (-9) + (-7)x + 5$

28. $9^2 =$

29. Solve: $5x = 75$

30. Evaluate $7x - 16$ when $x = 9$.

Answer Key

Grade 6 Expressions & Equations Mixed Review — Set A

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|-------------|---------------|----------------|
| 1. $x = 2$ | 11. $-10x$ | 21. $x = 32$ |
| 2. 21 | 12. 125 | 22. 13 |
| 3. $-x - 2$ | 13. $x = 4$ | 23. -1 |
| 4. 16 | 14. 33 | 24. 343 |
| 5. $x = 24$ | 15. $-7x$ | 25. $x = 14$ |
| 6. 61 | 16. 216 | 26. 68 |
| 7. $5x - 5$ | 17. $x = 42$ | 27. $-12x - 4$ |
| 8. 8 | 18. 30 | 28. 81 |
| 9. $x = 17$ | 19. $-6x - 2$ | 29. $x = 15$ |
| 10. 37 | 20. 4 | 30. 47 |