

Grade 7 Expressions & Equations Mixed Review

Expressions & Equations • Grade 7 • Mixed Review • Set A • CCSS 7.EE.4

Name: _____

Date: _____

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

1. Solve: $1x + (-20) = -14$

2. Solve: $x + (-6) > -8$

3. Simplify: $-9x + (-9) + (-4)x + (-1)$

4. Expand: $-2(4x + 10)$

5. Evaluate $x^2 + 2$ when $x = -8$.

6. Solve: $2x + 10 = -10$

7. Solve: $x + (-1) \geq -7$

8. Simplify: $4x + 7 + (-4)x + 9$

9. Expand: $-5(-8x - 3)$

10. Evaluate $5x + 19$ when $x = 8$.

11. Solve: $1x + (-20) = -21$

12. Solve: $x + (-2) \geq 2$

13. Simplify: $-7x + (-2) + (-8)x + (-9)$

14. Expand: $6(-8x - 11)$

15. Evaluate $4x - 19$ when $x = -3$.

16. Solve: $-2x + 16 = 8$

17. Solve: $x + 7 \geq 12$

18. Simplify: $8x + 4 + 6x + 5$

19. Expand: $2(-9x - 8)$

20. Evaluate $5x - 10$ when $x = -8$.

21. Solve: $2x + 16 = 0$

22. Solve: $x + 4 > 0$

23. Simplify: $-9x + (-2) + (-9)x + (-6)$

24. Expand: $6(-5x - 11)$

25. Evaluate $x^2 + 14$ when $x = -5$.

26. Solve: $-6x + (-15) = 21$

27. Solve: $x + (-8) < -15$

28. Simplify: $-8x + (-5) + (-6)x + (-4)$

29. Expand: $3(2x + 3)$

30. Evaluate $x^2 + 8$ when $x = 5$.

Answer Key

Grade 7 Expressions & Equations Mixed Review — Set A

1. $x = 6$

2. $x > -2$

3. $-13x - 10$

4. $-8x - 20$

5. 66

6. $x = -10$

7. $x \geq -6$

8. 16

9. $40x + 15$

10. 59

11. $x = -1$

12. $x \geq 4$

13. $-15x - 11$

14. $-48x - 66$

15. -31

16. $x = 4$

17. $x \geq 5$

18. $14x + 9$

19. $-18x - 16$

20. -50

21. $x = -8$

22. $x > -4$

23. $-18x - 8$

24. $-30x - 66$

25. 39

26. $x = -6$

27. $x < -7$

28. $-14x - 9$

29. $6x + 9$

30. 33