

Grade 7 Expressions & Equations Timed Drill

Expressions & Equations • Grade 7 • Timed Drill • Set A • CCSS 7.EE.1

Name: _____

Date: _____

Start the timer, then solve as many problems as you can. Write your time in the box when you finish.

TIMED DRILL	Time: _____ min _____ sec	Score: _____ / 60
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1. Simplify: $5x + 1 + 1x + 1$
2. Evaluate $9x + 5$ when $x = 8$.
3. Solve: $x \div -2 = 3$
4. Simplify: $1x + 1 + (-3)x + 1$
5. Evaluate $7x - 18$ when $x = -4$.
6. Solve: $x - -12 = 22$
7. Simplify: $-8x + (-4) + (-7)x + (-6)$
8. Evaluate $6x - 7$ when $x = 4$.
9. Solve: $-4x = -48$
10. Simplify: $-8x + 7 + 5x + (-1)$
11. Evaluate $6x + 7$ when $x = -1$.
12. Solve: $x - 10 = -21$
13. Simplify: $2x + 8 + (-9)x + 2$
14. Evaluate $4x + 18$ when $x = -4$.
15. Solve: $x \div 5 = 10$
16. Simplify: $-4x + 4 + (-1)x + 1$
17. Evaluate $2x + 10$ when $x = -8$.
18. Solve: $x - 5 = -13$
19. Simplify: $-5x + 5 + 7x + (-1)$
20. Evaluate $x^2 + 16$ when $x = 7$.
21. Solve: $x - -11 = 8$

22. Simplify: $6x + (-6) + 7x + 1$

23. Evaluate $x^2 + 16$ when $x = 8$.

24. Solve: $x + 3 = 1$

25. Simplify: $1x + (-6) + 3x + 5$

26. Evaluate $7x - 3$ when $x = 5$.

27. Solve: $x \div 7 = -5$

28. Simplify: $7x + 6 + 8x + (-8)$

29. Evaluate $x^2 + 17$ when $x = -3$.

30. Solve: $5x = -45$

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

32. Evaluate $6x - 17$ when $x = 6$.

33. Solve: $x \div 3 = 9$

34. Simplify: $-3x + (-1) + 3x + (-3)$

35. Evaluate $x^2 + 12$ when $x = 1$.

36. Solve: $x + 10 = 21$

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

38. Evaluate $x^2 + 16$ when $x = 3$.

39. Solve: $x \div 4 = 6$

40. Simplify: $-9x + (-9) + (-5)x + (-1)$

41. Evaluate $5x + 17$ when $x = -6$.

42. Solve: $1x = -8$

43. Simplify: $9x + (-3) + (-4)x + (-6)$

44. Evaluate $5x - 11$ when $x = 1$.

45. Solve: $x \div -5 = -3$

46. Simplify: $-4x + (-6) + 9x + (-2)$

47. Evaluate $6x - 9$ when $x = 2$.

48. Solve: $x + 8 = 9$

49. Simplify: $7x + (-9) + (-3)x + 5$

50. Evaluate $8x - 2$ when $x = -5$.

51. Solve: $x + 12 = 22$

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

53. Evaluate $x^2 + 10$ when $x = -5$.

54. Solve: $x - -10 = 7$

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

56. Evaluate $6x - 10$ when $x = -7$.

57. Solve: $-6x = -6$

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

59. Evaluate $9x - 17$ when $x = 4$.

60. Solve: $x - -8 = 2$

Answer Key

Grade 7 Expressions & Equations Timed Drill — Set A

1. $6x + 2$	21. $x = -3$	41. -13
2. 77	22. $13x - 5$	42. $x = -8$
3. $x = -6$	23. 80	43. $5x - 9$
4. $-2x + 2$	24. $x = -2$	44. -6
5. -46	25. $4x - 1$	45. $x = 15$
6. $x = 10$	26. 32	46. $5x - 8$
7. $-15x - 10$	27. $x = -35$	47. 3
8. 17	28. $15x - 2$	48. $x = 1$
9. $x = 12$	29. 26	49. $4x - 4$
10. $-3x + 6$	30. $x = -9$	50. -42
11. 1	31. $13x - 16$	51. $x = 10$
12. $x = -11$	32. 19	52. $-13x + 11$
13. $-7x + 10$	33. $x = 27$	53. 35
14. 2	34. -4	54. $x = -3$
15. $x = 50$	35. 13	55. $-x - 6$
16. $-5x + 5$	36. $x = 11$	56. -52
17. -6	37. $-12x + 2$	57. $x = 1$
18. $x = -8$	38. 25	58. $-10x - 8$
19. $2x + 4$	39. $x = 24$	59. 19
20. 65	40. $-14x - 10$	60. $x = -6$