

Name: \_\_\_\_\_

Date: \_\_\_\_\_

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## Two-Step Equations

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Grades 6 – 8 • 50 questions • Show your work

1.  $2(x + 5) = 6$   $x =$  \_\_\_\_\_

2.  $9(x - 9) = -18$   $x =$  \_\_\_\_\_

3.  $3(x + 9) = 54$   $x =$  \_\_\_\_\_

4.  $8(x + 2) = 80$   $x =$  \_\_\_\_\_

5.  $5(x + 8) = 55$   $x =$  \_\_\_\_\_

6.  $9x - 6 = 8x + 0$   $x =$  \_\_\_\_\_

7.  $3x + 10 = 6x + 1$   $x =$  \_\_\_\_\_

8.  $2(x - 5) = -28$   $x =$  \_\_\_\_\_

9.  $8(x + 3) = 0$   $x =$  \_\_\_\_\_

10.  $8(x - 4) = -24$   $x =$  \_\_\_\_\_

11.  $6x - 5 = 9x + 7$   $x =$  \_\_\_\_\_

12.  $2(x + 2) = -14$   $x =$  \_\_\_\_\_

13.  $4(x - 9) = -8$   $x =$  \_\_\_\_\_

14.  $9(x - 1) = 54$   $x =$  \_\_\_\_\_

15.  $4x + 7 = 6x + 11$   $x =$  \_\_\_\_\_

16.  $9(x + 1) = -54$   $x =$  \_\_\_\_\_

17.  $3x + 8 = 5x + 26$   $x =$  \_\_\_\_\_

18.  $9(x + 2) = 54$   $x =$  \_\_\_\_\_

19.  $7(x - 7) = 0$   $x =$  \_\_\_\_\_

20.  $2(x - 7) = -30$   $x =$  \_\_\_\_\_

21.  $4x - 10 = 2x - 4$   $x =$  \_\_\_\_\_

22.  $5x + 7 = 4x + 15$   $x =$  \_\_\_\_\_

23.  $9(x + 5) = -36$   $x =$  \_\_\_\_\_

24.  $9(x - 2) = -54$   $x =$  \_\_\_\_\_

25.  $6(x + 2) = 48$   $x =$  \_\_\_\_\_

26.  $7x - 12 = 6x - 7$   $x =$  \_\_\_\_\_

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**27.**  $9(x - 3) = -99$   $x =$  \_\_\_\_\_

**28.**  $9x + 6 = 5x + 26$   $x =$  \_\_\_\_\_

**29.**  $8(x + 2) = 48$   $x =$  \_\_\_\_\_

**30.**  $9(x - 6) = 0$   $x =$  \_\_\_\_\_

**31.**  $5(x + 5) = 35$   $x =$  \_\_\_\_\_

**32.**  $7x - 1 = 5x - 7$   $x =$  \_\_\_\_\_

**33.**  $8x - 11 = 3x + 34$   $x =$  \_\_\_\_\_

**34.**  $6(x - 5) = -18$   $x =$  \_\_\_\_\_

**35.**  $6(x - 9) = -78$   $x =$  \_\_\_\_\_

**36.**  $7(x - 6) = -91$   $x =$  \_\_\_\_\_

**37.**  $7x - 12 = 6x - 9$   $x =$  \_\_\_\_\_

**38.**  $5(x - 9) = -5$   $x =$  \_\_\_\_\_

**39.**  $9(x - 2) = 45$   $x =$  \_\_\_\_\_

**40.**  $4(x - 2) = 28$   $x =$  \_\_\_\_\_

**41.**  $9(x + 4) = 90$   $x =$  \_\_\_\_\_

**42.**  $8x - 6 = 5x - 18$   $x =$  \_\_\_\_\_

**43.**  $6x - 6 = 9x - 9$   $x =$  \_\_\_\_\_

**44.**  $3(x + 1) = -3$   $x =$  \_\_\_\_\_

**45.**  $2x + 5 = 9x - 23$   $x =$  \_\_\_\_\_

**46.**  $2x + 11 = 9x - 24$   $x =$  \_\_\_\_\_

**47.**  $6(x - 3) = 12$   $x =$  \_\_\_\_\_

**48.**  $4(x + 3) = 20$   $x =$  \_\_\_\_\_

**49.**  $4(x + 2) = -28$   $x =$  \_\_\_\_\_

**50.**  $8(x - 3) = -40$   $x =$  \_\_\_\_\_

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## Answer Key — Two-Step Equations

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1.  $-2$

2.  $7$

3.  $9$

4.  $8$

5.  $3$

6.  $6$

7.  $3$

8.  $-9$

9.  $-3$

10.  $1$

11.  $-4$

12.  $-9$

13.  $7$

14.  $7$

15.  $-2$

16.  $-7$

17.  $-9$

18.  $4$

19.  $7$

20.  $-8$

21.  $3$

22.  $8$

23.  $-9$

24.  $-4$

25.  $6$

26.  $5$

27.  $-8$

28.  $5$

29.  $4$

30.  $6$

31.  $2$

32.  $-3$

33.  $9$

34.  $2$

35.  $-4$

36.  $-7$

37.  $3$

38.  $8$

39.  $7$

40.  $9$

41.  $6$

42.  $-4$

43.  $1$

44.  $-2$

45.  $4$

46.  $5$

47.  $5$

48.  $2$

49.  $-9$

50.  $-2$

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