

Math 8
Ch 11 Review Algebra

Name _____

Date _____

1. 29 is the sum of r and 54. Solve for r .
 2. -18 is the sum of p and -65 . Solve for p .
 3. The sum of a number and 85 is 305. What is the number?
 4. The difference of 100 and c is 66. Find c .
 5. 42 is eight more than y . Find y .
 6. 4 times a number is 128. What is the number?
 7. When a number is doubled, the result is 46. What is the number?
 8. 48 is equal to eight times the quantity r minus 9. Find r .
 9. The sum of -18 and three times a number is 10. Find the number.
 10. 23 more than twice a number is 15. What is the number?
 11. When a number is multiplied by -5 and then added to 16, the result is -24 . Find the number.
 12. When 45 is subtracted from nine times a number, the result is 0. Find the number.
- Solve.
13. $9 - 17 = r$
 14. $-14 + 7 = k$
 15. $10 = 8 + z$
 16. $35 = 25 + w$
 17. $79 = f + 44$
 18. $w - 14 = -20$

19. $39 = 3d$

20. $-70 = 10a$

21. $7t = 224$

22. $-15 = -15b$

23. $\frac{a}{12} = 12$

24. $10 = \frac{x}{-10}$

25. $-9 = \frac{-n}{9}$

26. $-\frac{1}{9}d = 6$

27. $-18 = -\frac{3}{5}p$

28. $\frac{15}{8}w = -30$

29. $-\frac{2}{3}u = 22$

30. $\frac{3z}{-8} = 24$

31. $\frac{-10x}{3} = -90$

32. $-8c - 56 = 0$

33. $-18 = 60 - 13a$

34. $28 = -14u + 16$

35. $-7 - (-12p) = 38$

36. $-15x - 11 = 22$

37. $-9a - 47 = 52$

38. $15 = 14 - \frac{a}{7}$

39. $-\frac{3}{4}t - 8 = -8$

40. $6t - \frac{5}{6} = \frac{7}{15}$

41. $\frac{4}{15}r + \frac{8}{5} = 0$

42. $\frac{n}{8} + \frac{5}{4} = 3$

43. $-\frac{2}{9} = \frac{5}{2^p} - \frac{7}{9}$

44. $-\frac{5r}{8} + \frac{7}{8} = \frac{1}{4}$

45. $-\frac{4x}{7} - \frac{11}{14} = \frac{5}{6}$

46. $\frac{3}{2} = -\frac{7}{10}t - \frac{3}{5}$

47. $6r - (-2r - 27) = 21$

48. $13 = 4(-7r - 3) - 2r$

49. $6a + 2(4a + 1) = -5$

50. $55 + 5(3x + 7) = 0$

51. $-3(5 - 2t) + 28 = 1$

52. $13 = 4(-7r - 3) - 2r$

53. $-8 = 12h - 4(2 + 3h)$

54. $-2(9d + 4) + 18d = 10$

55. $3(7z - 1) - 5(3 + z) = -14$

56. $2(3 - 10x) + 4(5x + 2) = -6$

57. $2(3 - 10x) + 4(5x + 2) = -6$

Answer List

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|---------------------|--------------------|---------------------|
| 1. -25 | 2. 47 | 3. 220 |
| 4. 34 | 5. 34 | 6. 32 |
| 7. 23 | 8. 15 | 9. $\frac{28}{3}$ |
| 10. -4 | 11. 8 | 12. 5 |
| 13. -8 | 14. -7 | 15. 2 |
| 16. 10 | 17. 35 | 18. -6 |
| 19. 13 | 20. -7 | 21. 32 |
| 22. 1 | 23. 144 | 24. -100 |
| 25. 81 | 26. -54 | 27. 30 |
| 28. -16 | 29. -33 | 30. -64 |
| 31. 27 | 32. -7 | 33. 6 |
| 34. $-\frac{6}{7}$ | 35. $\frac{15}{4}$ | 36. $-\frac{11}{5}$ |
| 37. -11 | 38. -7 | 39. 0 |
| 40. $\frac{13}{60}$ | 41. -6 | 42. 14 |
| 43. $\frac{2}{9}$ | 44. 1 | 45. $-\frac{17}{6}$ |
| 46. -3 | 47. $-\frac{3}{4}$ | 48. $-\frac{5}{6}$ |
| 49. $-\frac{1}{2}$ | 50. -6 | 51. -2 |
| 52. $-\frac{5}{6}$ | 53. \mathbb{R} | 54. \emptyset |
| 55. $\frac{1}{4}$ | 56. \emptyset | 57. \emptyset |

Catalog List

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|----------------|----------------|----------------|
| 1. ALG HA 1 | 2. ALG HA 2 | 3. ALG HA 5 |
| 4. ALG HA 42 | 5. ALG HA 16 | 6. ALG HA 49 |
| 7. ALG HA 60 | 8. ALG HA 103 | 9. ALG HA 106 |
| 10. ALG HA 108 | 11. ALG HA 123 | 12. ALG HA 128 |
| 13. ALG GA 1 | 14. ALG GA 6 | 15. ALG GA 16 |
| 16. ALG GA 19 | 17. ALG GA 20 | 18. ALG GA 53 |
| 19. ALG GB 21 | 20. ALG GB 28 | 21. ALG GB 32 |
| 22. ALG GB 36 | 23. ALG GB 69 | 24. ALG GB 70 |
| 25. ALG GB 72 | 26. ALG GB 73 | 27. ALG GB 77 |
| 28. ALG GB 79 | 29. ALG GB 80 | 30. ALG GB 83 |
| 31. ALG GB 84 | 32. ALG GC 41 | 33. ALG GC 48 |
| 34. ALG GC 49 | 35. ALG GC 50 | 36. ALG GC 52 |
| 37. ALG GC 54 | 38. ALG GC 99 | 39. ALG GC 106 |
| 40. ALG GC 126 | 41. ALG GC 130 | 42. ALG GC 136 |
| 43. ALG GC 142 | 44. ALG GC 148 | 45. ALG GC 154 |
| 46. ALG GC 160 | 47. ALG GE 110 | 48. ALG GE 124 |
| 49. ALG GE 121 | 50. ALG GE 123 | 51. ALG GE 122 |
| 52. ALG GE 124 | 53. ALG GE 126 | 54. ALG GE 127 |
| 55. ALG GE 180 | 56. ALG GE 182 | 57. ALG GE 182 |