

## Worksheet for Solving Equations using the Addition Method

①

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

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

Use the Addition Method to solve these systems of equations:

1. 
$$\begin{array}{r} -3d - 5g = 53 \\ -2d + 5g = -23 \end{array}$$

2. 
$$\begin{array}{r} 4k - 5n = 34 \\ 7k + 5n = 32 \end{array}$$

3. 
$$\begin{array}{r} -3a + 3b = -9 \\ -5a - 3b = 41 \end{array}$$

4. 
$$\begin{array}{r} h + 3k = -13 \\ 2h - 3k = 28 \end{array}$$

5. 
$$\begin{array}{r} 3a + 7b = -1 \\ -3a + 6b = 27 \end{array}$$

6. 
$$\begin{array}{r} -4k + 5n = 2 \\ 4k - 7n = 2 \end{array}$$

7. 
$$\begin{array}{r} 2p + 7q = -22 \\ -5p - 7q = 13 \end{array}$$

8. 
$$\begin{array}{r} 5n - 4p = 58 \\ -2n + 4p = -40 \end{array}$$

9. 
$$\begin{array}{r} -6a - 4b = 8 \\ -7a + 4b = -34 \end{array}$$

10. 
$$\begin{array}{r} -5b - 3c = -24 \\ -4b + 3c = -30 \end{array}$$

11. 
$$\begin{array}{r} -7p - 3q = -13 \\ 7p + 2q = 18 \end{array}$$

12. 
$$\begin{array}{r} 5k + n = 17 \\ -5k + 2n = 4 \end{array}$$

13. 
$$\begin{array}{r} -4d - 6g = -2 \\ 7d + 6g = 17 \end{array}$$

14. 
$$\begin{array}{r} 2h - 7k = -40 \\ -2h - 5k = -8 \end{array}$$

15. 
$$\begin{array}{r} -4b - 2c = 0 \\ 4b + 5c = 18 \end{array}$$

Name:

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Use the Subtraction Method to solve these systems of equations:

1. 
$$\begin{array}{r} -6s - 2x = 38 \\ 7s - 2x = -27 \end{array}$$

2. 
$$\begin{array}{r} 2b - 7c = 41 \\ -6b - 7c = 17 \end{array}$$

3. 
$$\begin{array}{r} 4q + 2r = 34 \\ -6q + 2r = -16 \end{array}$$

4. 
$$\begin{array}{r} -2r + 6s = 34 \\ -3r + 6s = 30 \end{array}$$

5. 
$$\begin{array}{r} -2b - 3c = -27 \\ -2b - 4c = -32 \end{array}$$

6. 
$$\begin{array}{r} -5r + 4s = 18 \\ -5r + 3s = 11 \end{array}$$

7. 
$$\begin{array}{r} -5s - 6x = 22 \\ 3s - 6x = 54 \end{array}$$

8. 
$$\begin{array}{r} 2g - 7h = 32 \\ 2g + 3h = -28 \end{array}$$

9. 
$$\begin{array}{r} 4p + 2q = -32 \\ 3p + 2q = -27 \end{array}$$

10. 
$$\begin{array}{r} -4q - 7r = 1 \\ -2q - 7r = 11 \end{array}$$

11. 
$$\begin{array}{r} 3p + 6q = 30 \\ -2p + 6q = 50 \end{array}$$

12. 
$$\begin{array}{r} -2n - 6p = 24 \\ 4n - 6p = 42 \end{array}$$

13. 
$$\begin{array}{r} -7g + 2h = 18 \\ 6g + 2h = -34 \end{array}$$

14. 
$$\begin{array}{r} 5c - 4d = -9 \\ 2c - 4d = -18 \end{array}$$

15. 
$$\begin{array}{r} 3c + 5d = -18 \\ 7c + 5d = -2 \end{array}$$