Introduction to Equations – Challenge

1. If x = 4 makes 3x + 4 = 6x + ? true, find ?

2. 4x + 10 = 42

3. 4x + 18 = 74

4. If x = 10 makes 4x + 7 = 3x + ? true, find ?

5. If x = 9 makes 2x + 4 = 4x + ? true, find ?

6. If x = 4 makes 5x + 5 = 3x + ? true, find ?

7. If x = 7 makes 4x + 5 = 4x + ? true, find ?

8. 7x + 16 = 86

Introduction to Equations – Challenge

9. If 2x + 14 = 24, subtract what from both sides to get 2x = 10?

10. 6x + 12 = 90

11. 5x + 9 = 59

12. If x = 4 makes 4x + 6 = 4x + ? true, find ?

13. If 2x + 9 = 29, subtract what from both sides to get 2x = 20?

14. If x = 11 makes 3x + 5 = 6x + ? true, find ?

15. 3x + 17 = 29

16. 4x + 11 = 47

Introduction to Equations - Challenge - Answer Key

1. If $x = 4$ makes $3x + 4 = 6x + ?$ true, find ?

   $x = -8$

2. $4x + 10 = 42$

   $x = 8$

3. $4x + 18 = 74$

   $x = 14$

4. If $x = 10$ makes $4x + 7 = 3x + ?$ true, find ?

   $x = 17$

5. If $x = 9$ makes $2x + 4 = 4x + ?$ true, find ?

   $x = -14$

6. If $x = 4$ makes $5x + 5 = 3x + ?$ true, find ?

   $x = 13$

7. If $x = 7$ makes $4x + 5 = 4x + ?$ true, find ?

   $x = 5$

8. $7x + 16 = 86$

   $x = 10$

9. If 2x + 14 = 24, subtract what from both sides to get 2x = 10?

    x = 14

10. 6x + 12 = 90

    x = 13

11. 5x + 9 = 59

    x = 10

12. If x = 4 makes 4x + 6 = 4x + ? true, find ?

    x = 6

13. If 2x + 9 = 29, subtract what from both sides to get 2x = 20?

    x = 9

14. If x = 11 makes 3x + 5 = 6x + ? true, find ?

    x = -28

15. 3x + 17 = 29

    x = 4

16. 4x + 11 = 47

    x = 9