Determining Variable Value to Balance Equations Name:

Find the value of x.

1) 5x + 72 = 87 + 0x

2) -5 + 5x = 19 + 1x

3) 3x + 41 = 0x + 65

4) 66 + 3x = 81 + 0x

5) 3x + 19 = 55 - 6x

6) 5x + 7 = 70 - 2x

7) -3x + 43 = -5x + 61

8) -2x + 39 = -7x + 89

9) -2x + 90 = 117 + -11x

10) -2x + 89 = 105 + -4x

11) 58 + -2x = 73 + -7x

12) 3x + 25 = -6x + 88

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Determining Variable Value to Balance Equations Name: **Answer Key**

Find the value of x.

1) 5x + 72 = 87 + 0x
5x = 15
x = 3

2) -5 + 5x = 19 + 1x
4x = 24
x = 6

3) 3x + 41 = 0x + 65
3x = 24
x = 8

4) 66 + 3x = 81 + 0x
3x = 15
x = 5

5) 3x + 19 = 55 - 6x
9x = 36
x = 4

6) 5x + 7 = 70 - 2x
7x = 63
x = 9

7) -3x + 43 = -5x + 61
2x = 18
x = 9

8) -2x + 39 = -7x + 89
5x = 50
x = 10

9) -2x + 90 = 117 + -11x
9x = 27
x = 3

10) -2x + 89 = 105 + -4x
2x = 16
x = 8

11) 58 + -2x = 73 + -7x
5x = 15
x = 3

12) 3x + 25 = -6x + 88
9x = 63
x = 7

Answers

1. 3
2. 6
3. 8
4. 5
5. 4
6. 9
7. 9
8. 10
9. 3
10. 8
11. 3
12. 7

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Determining Variable Value to Balance Equations Name:

Find the value of x.

4	6	9	9	5
3	3	8	10	8

1) 5x + 72 = 87 + 0x

2) -5 + 5x = 19 + 1x

3) 3x + 41 = 0x + 65

4) 66 + 3x = 81 + 0x

5) 3x + 19 = 55 - 6x

6) 5x + 7 = 70 - 2x

7) -3x + 43 = -5x + 61

8) -2x + 39 = -7x + 89

9) -2x + 90 = 117 + -11x

10) -2x + 89 = 105 + -4x

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

1-10	90	80	70	60	50	40	30	20	10	0