Determining Variable Value to Balance Equations Name:

Find the value of x.

1) $2x + 38 = 102 + -6x$

2) $100 + -3x = 136 + -7x$

3) $-2x + 32 = -7x + 62$

4) $57 - 1x = 77 - 6x$

5) $4x + 56 = -5x + 74$

6) $-3x + 40 = 56 - 5x$

7) $-4x + 56 = -6x + 62$

8) $86 - 2x = -9x + 107$

9) $2x - 7 = 29 - 2x$

10) $36 + 1x = -9x + 56$

11) $45 + -4x = -13x + 108$

12) $39 + 5x = 109 + -5x$

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) 2x + 38 = 102 + -6x

8x = 64

x = 8

2) 100 + -3x = 136 + -7x

4x = 36

x = 9

3) -2x + 32 = -7x + 62

5x = 30

x = 6

4) 57 - 1x = 77 - 6x

5x = 20

x = 4

5) 4x + 56 = -5x + 74

9x = 18

x = 2

6) -3x + 40 = 56 - 5x

2x = 16

x = 8

7) -4x + 56 = -6x + 62

2x = 6

x = 3

8) 86 - 2x = -9x + 107

7x = 21

x = 3

9) 2x - 7 = 29 - 2x

4x = 36

x = 9

10) 36 + 1x = -9x + 56

10x = 20

x = 2

11) 45 + -4x = -13x + 108

9x = 63

x = 7

12) 39 + 5x = 109 + -5x

10x = 70

x = 7

Answers

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

2	6	9	3	4
8	3	8	2	9

1) 2x + 38 = 102 + -6x

2) 100 + -3x = 136 + -7x

3) -2x + 32 = -7x + 62

4) 57 - 1x = 77 - 6x

5) 4x + 56 = -5x + 74

6) -3x + 40 = 56 - 5x

7) -4x + 56 = -6x + 62

8) 86 - 2x = -9x + 107

9) 2x - 7 = 29 - 2x

10) 36 + 1x = -9x + 56

Answers

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

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