Determining Variable Value to Balance Equations

Name:

Find the value of x.

1) 55 + -5x = -9x + 75

2) -5x + 44 = 68 + -9x

3) 42 + 4x = -2x + 54

4) 4x + 24 = 60 - 2x

5) 5 + 5x = -3x + 85

6) 2x + 30 = -7x + 48

7) -5x + 64 = -11x + 94

8) 81 + -5x = 96 + -10x

9) -4x + 108 = -8x + 148

10) -4x + 71 = -11x + 113

11) -2x + 72 = 136 - 10x

12) -4x + 67 = 83 + -12x

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) 55 + -5x = -9x + 75

4x = 20

x = 5

2) -5x + 44 = 68 + -9x

4x = 24

x = 6

3) 42 + 4x = -2x + 54

6x = 12

x = 2

4) 4x + 24 = 60 - 2x

6x = 36

x = 6

5) 5 + 5x = -3x + 85

8x = 80

x = 10

6) 2x + 30 = -7x + 48

9x = 18

x = 2

7) -5x + 64 = -11x + 94

6x = 30

x = 5

8) 81 + -5x = 96 + -10x

5x = 15

x = 3

9) -4x + 108 = -8x + 148

4x = 40

x = 10

10) -4x + 71 = -11x + 113

7x = 42

x = 6

11) -2x + 72 = 136 - 10x

8x = 64

x = 8

12) -4x + 67 = 83 + -12x

8x = 16

x = 2

Answers

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

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.

10	6	5	10	3
2	5	6	6	2

1) 55 + -5x = -9x + 75

2) -5x + 44 = 68 + -9x

3) 42 + 4x = -2x + 54

4) 4x + 24 = 60 - 2x

5) 5 + 5x = -3x + 85

6) 2x + 30 = -7x + 48

7) -5x + 64 = -11x + 94

8) 81 + -5x = 96 + -10x

9) -4x + 108 = -8x + 148

10) -4x + 71 = -11x + 113

Answers

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

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