Determining Variable Value to Balance Equations

Name:

Find the value of x.

1) 111 + -5x = 121 + -7x

2) -1x + 60 = 92 - 5x

3) -1x + 91 = -5x + 103

4) 49 + 5x = -5x + 129

5) -4x + 32 = 40 - 6x

6) 56 - 1x = -9x + 112

7) 5x + 18 = 45 + 2x

8) 12 + 2x = 28 - 2x

9) -3x + 66 = 80 - 5x

10) 3x + 50 = -1x + 66

11) 56 + 1x = -8x + 146

12) -1x + 38 = -7x + 98

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) 111 + -5x = 121 + -7x

2x = 10

x = 5

2) -1x + 60 = 92 - 5x

4x = 32

x = 8

3) -1x + 91 = -5x + 103

4x = 12

x = 3

4) 49 + 5x = -5x + 129

10x = 80

x = 8

5) -4x + 32 = 40 - 6x

2x = 8

x = 4

6) 56 - 1x = -9x + 112

8x = 56

x = 7

7) 5x + 18 = 45 + 2x

3x = 27

x = 9

8) 12 + 2x = 28 - 2x

4x = 16

x = 4

9) -3x + 66 = 80 - 5x

2x = 14

x = 7

10) 3x + 50 = -1x + 66

4x = 16

x = 4

11) 56 + 1x = -8x + 146

9x = 90

x = 10

12) -1x + 38 = -7x + 98

6x = 60

x = 10

Answers

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

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.

8	5	9	7	3
4	4	8	7	4

1) 111 + -5x = 121 + -7x

2) -1x + 60 = 92 - 5x

3) -1x + 91 = -5x + 103

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7) 5x + 18 = 45 + 2x

8) 12 + 2x = 28 - 2x

9) -3x + 66 = 80 - 5x

10) 3x + 50 = -1x + 66

Answers

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

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