Determining Variable Value to Balance Equations

Name:

Find the value of x.

1) -3x + 81 = -8x + 101

2) 59 - 4x = -12x + 75

3) 52 - 2x = 108 - 10x

4) 66 - 1x = 78 - 3x

5) 39 + 3x = 59 - 1x

6) 2x + 42 = 0x + 48

7) 4x + 19 = 75 - 3x

8) 1x + 81 = 126 - 4x

9) 91 + -5x = 121 + -8x

10) 1x + 49 = -3x + 85

11) -3x + 82 = -10x + 110

12) 94 + -3x = -12x + 121

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) -3x + 81 = -8x + 101

5x = 20

x = 4

2) 59 - 4x = -12x + 75

8x = 16

x = 2

3) 52 - 2x = 108 - 10x

8x = 56

x = 7

4) 66 - 1x = 78 - 3x

2x = 12

x = 6

5) 39 + 3x = 59 - 1x

4x = 20

x = 5

6) 2x + 42 = 0x + 48

2x = 6

x = 3

7) 4x + 19 = 75 - 3x

7x = 56

x = 8

8) 1x + 81 = 126 - 4x

5x = 45

x = 9

9) 91 + -5x = 121 + -8x

3x = 30

x = 10

10) 1x + 49 = -3x + 85

4x = 36

x = 9

11) -3x + 82 = -10x + 110

7x = 28

x = 4

12) 94 + -3x = -12x + 121

9x = 27

x = 3

Answers

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

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	4	5	6	9
9	7	10	8	3

1) -3x + 81 = -8x + 101

2) 59 - 4x = -12x + 75

3) 52 - 2x = 108 - 10x

4) 66 - 1x = 78 - 3x

5) 39 + 3x = 59 - 1x

6) 2x + 42 = 0x + 48

7) 4x + 19 = 75 - 3x

8) 1x + 81 = 126 - 4x

9) 91 + -5x = 121 + -8x

10) 1x + 49 = -3x + 85

Answers

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

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