Determining Variable Value to Balance Equations

Name:

Find the value of x.

1) $51 + 4x = 79 - 3x$

2) $96 + -4x = 156 + -10x$

1. _____

2. _____

3. _____

3) $-4x + 117 = 198 + -13x$

4) $1x + 16 = 26 - 4x$

4. _____

5. _____

6. _____

5) $58 + 5x = 74 - 3x$

6) $-7 + 5x = -4x + 38$

7. _____

8. _____

9. _____

7) $1x + 36 = 68 + -7x$

8) $38 + 5x = 56 + 2x$

10. _____

11. _____

12. _____

9) $4x + 77 = 0x + 85$

10) $107 + -4x = -10x + 155$

11) $-2x + 86 = 116 + -12x$

12) $-4x + 85 = 91 - 7x$

Math   www.CommonCoreSheets.com
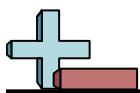
1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Find the value of x.

1) $51 + 4x = 79 - 3x$

$7x = 28$

$x = 4$

2) $96 + -4x = 156 + -10x$

$6x = 60$

$x = 10$

3) $-4x + 117 = 198 + -13x$

$9x = 81$

$x = 9$

4) $1x + 16 = 26 - 4x$

$5x = 10$

$x = 2$

5) $58 + 5x = 74 - 3x$

$8x = 16$

$x = 2$

6) $-7 + 5x = -4x + 38$

$9x = 45$

$x = 5$

7) $1x + 36 = 68 + -7x$

$8x = 32$

$x = 4$

8) $38 + 5x = 56 + 2x$

$3x = 18$

$x = 6$

9) $4x + 77 = 0x + 85$
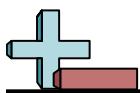
$4x = 8$

$x = 2$

10) $107 + -4x = -10x + 155$

$6x = 48$

$x = 8$

11) $-2x + 86 = 116 + -12x$

$10x = 30$

$x = 3$

12) $-4x + 85 = 91 - 7x$

$3x = 6$

$x = 2$

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

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

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Answers

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1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____