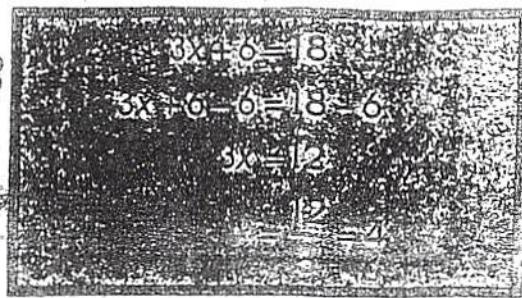
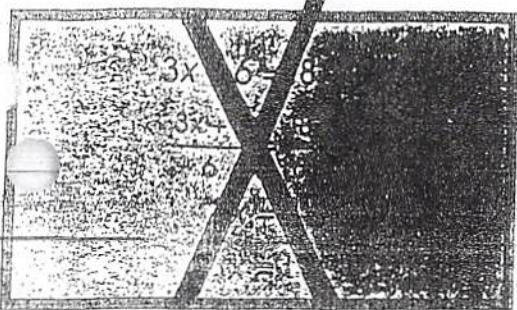


# Key

## Solving Two-Step Equations with Integers



### Tip

"Undo" all operations by performing the opposite operation.

Solve the equations. Write the answers in the cross-number puzzle.

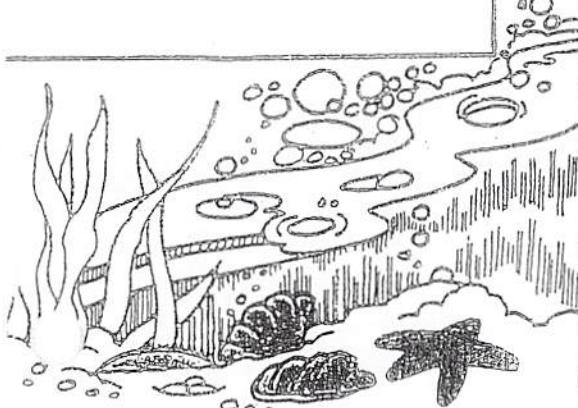
#### Across

- $3x - 9 = -12$
- $-5x - 2 = -107$
- $7x + 9 = 16$
- $\frac{-x}{2} - 3 = 5$
- $3x - 1 = -13$
- $\frac{x}{4} - 2 = -10$
- $42 - 2x = 82$
- $3x + 3 = 6$
- $-10x - 40 = -50$
- $-9x - 12 = 177$
- $\frac{x}{12} - 4 = 20$

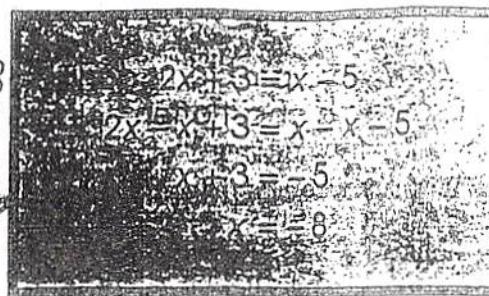
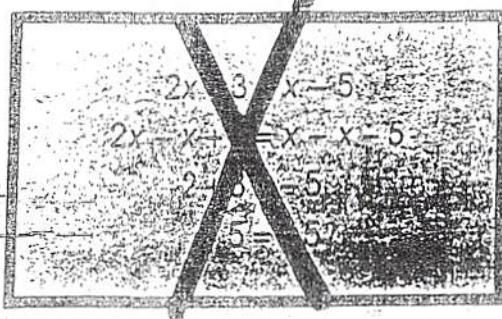
#### Down

- $2x + 8 = -16$
- $\frac{x}{3} + 1 = 9$
- $\frac{x}{4} - 1 = 3$
- $3x + 9 = -27$
- $17 + 2x = -63$
- $-5x - 6 = 144$
- $-6x - 15 = -81$
- $\frac{x}{3} + 2 = -4$
- $\frac{x}{6} + 6 = 3$

1	-1	2	1	3
2	4	-1	6	
5	-4	-3	2	
-2	0	0		1
11	2	9	8	4



## Solving Equalities with Variables on Both Sides



*Tip*

When subtracting monomials, subtract coefficients, not variables.

Solve the following equations. Write the answers in the correct box. When you are finished, the sum of each row, column, and diagonal should equal -2.

1.  $3x + 6 = 2x + 13$
2.  $5x - 8 = 4x - 15$
3.  $2x + 1 = x - 5$
4.  $x + 9 = 2x + 5$
5.  $3x - 8 = 4x - 4$
6.  $6x + 8 = 4x + 12$
7.  $7x - 6 = 6x - 5$
8.  $18x - 16 = 19x - 15$
9.  $3x + 17 = 2x + 17$
10.  $-4x + 8 = -2x + 12$
11.  $5x - 6 = 4x - 9$
12.  $11x + 16 = 15x + 4$
13.  $20x + 25 = 19x + 20$
14.  $2x - 17 = x - 12$
15.  $7x - 16 = 6x - 10$
16.  $2x - 5 = 3x + 3$

1	7	-7	-6	4
5	-4	2	1	-1
9	0	-2	-3	3
13	-5	5	6	-8

