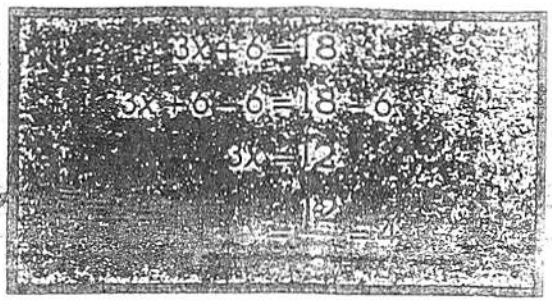
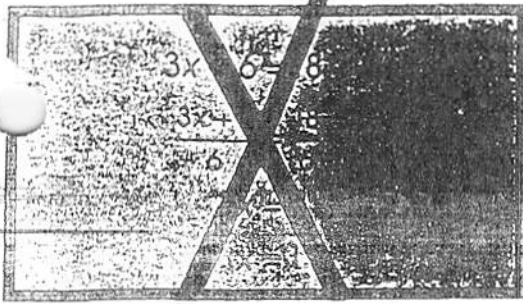


Solving Two-Step Equations with Integers



Tip

"Undo" all operations by performing the opposite operation.

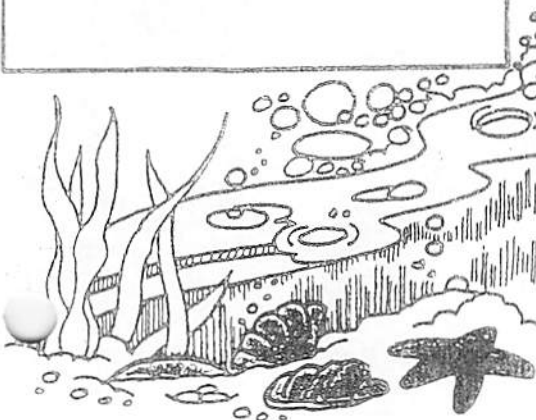
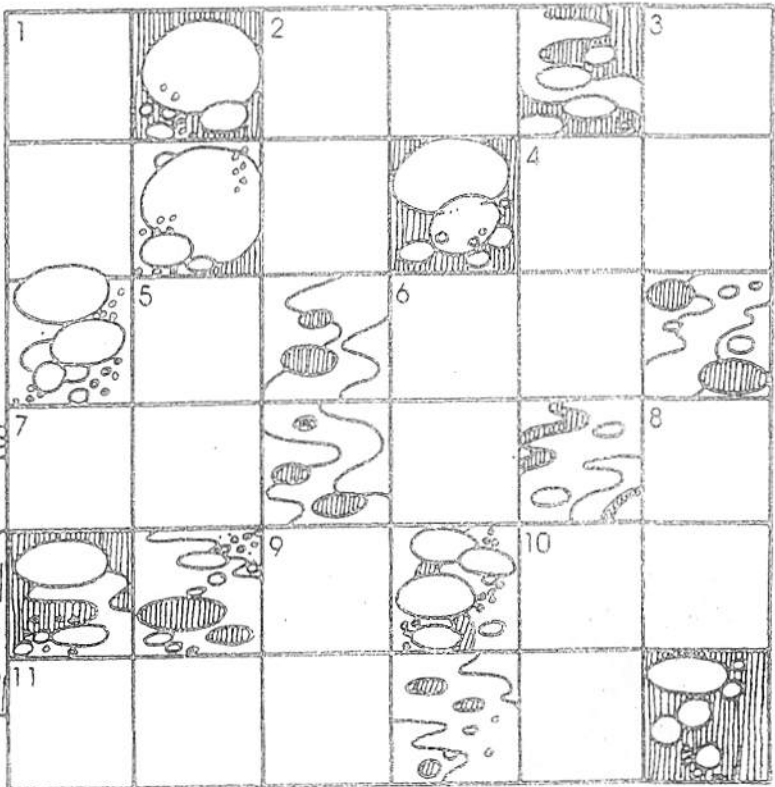
Solve the equations. Write the answers in the cross-number puzzle.

Across

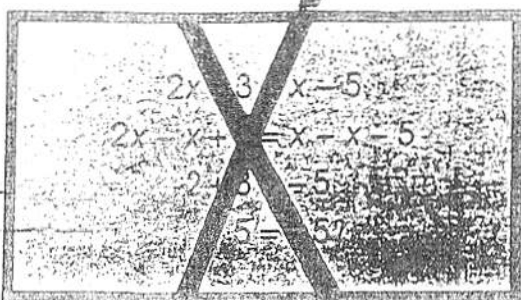
1. $3x - 9 = -12$
2. $-5x - 2 = -107$
3. $7x + 9 = 16$
4. $\frac{-x}{2} - 3 = 5$
5. $3x - 1 = -13$
6. $\frac{x}{4} - 2 = -10$
7. $42 - 2x = 82$
8. $3x + 3 = 6$
9. $-10x - 40 = -50$
10. $-9x - 12 = 177$
11. $\frac{x}{12} - 4 = 20$

Down

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



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	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

