

Writing Equations from Word Problems

Part A: Addition and Subtraction Situations

Write an equation to represent each situation. Let the unknown number be x .

1. A number increased by 7 equals 15.
2. The sum of a number and 12 is 30.
3. A number decreased by 9 equals 5.
4. The difference between a number and 3 is 11.
5. A number minus 10 equals 25.



(Optional: Solve each equation if you want students to practice using inverses.)

Part B: Multiplication and Division Situations

Write an equation to represent each situation. Let the unknown number be x .

6. Three times a number equals 27.
7. A number divided by 5 equals 9.
8. Half of a number equals 14.
9. The quotient of a number and 8 is 6.
10. Four times a number equals 32.

Part C: Mixed Operations (Two-Step)

Write an equation to represent each situation. Let the unknown number be x .

11. Twice a number increased by 3 equals 11.
12. A number divided by 4 decreased by 2 equals 5.
13. A number multiplied by 5, then reduced by 7, equals 18.
14. One-third of a number plus 6 equals 15.
15. Seven more than half a number equals 20.