

Name _____

Equation Matching Challenge

Match each **verbal sentence** to its **algebraic equation**. Write the **letter** of the correct equation on the blank line.

Key Idea: Phrases like *"increased by," "twice a number,"* and *"divided by"* show the operations in the equation. Look for **keywords** that tell you which operation to use.

Sentences

- _____ 1. Twice a number increased by 3 equals 11.
- _____ 2. A number decreased by 7 equals 5.
- _____ 3. Triple a number is 24.
- _____ 4. The quotient of a number and 4 equals 9.
- _____ 5. A number divided by 8 plus 2 equals 10.
- _____ 6. Five more than half a number is 15.
- _____ 7. A number increased by 9 equals 20.
- _____ 8. Four times a number decreased by 6 equals 14.
- _____ 9. A number minus 12 equals 18.
- _____ 10. The sum of a number and 10 equals 45.
- _____ 11. A number multiplied by -3 equals 21.
- _____ 12. Twice a number equals 36.
- _____ 13. A number divided by 5 decreased by 4 equals 8.
- _____ 14. Six more than a number equals 25.
- _____ 15. The difference between a number and 2 is 9.
- _____ 16. One-third of a number plus 7 equals 13.

Equations

- A. $x - 7 = 5$
- B. $3x = 24$
- C. $x \div 4 = 9$
- D. $2x + 3 = 11$
- E. $x \div 8 + 2 = 10$
- F. $x \div 2 + 5 = 15$
- G. $x + 9 = 20$
- H. $4x - 6 = 14$
- I. $x - 12 = 18$
- J. $x + 10 = 45$
- K. $-3x = 21$
- L. $2x = 36$
- M. $x \div 5 - 4 = 8$
- N. $x + 6 = 25$
- O. $x - 2 = 9$
- P. $x \div 3 + 7 = 13$

