

Practice 2-4

Variables and Equations

Is the given number a solution of the equation?

- | | |
|--|----------------------------------|
| 1. $9k = 10 - k; -1$ _____ | 2. $-7r - 15 = -2r; -3$ _____ |
| 3. $3g \div (-6) = 5 - g; -10$ _____ | 4. $-3p = 4p + 35; -5$ _____ |
| 5. $8 - e = 2e - 16; 8$ _____ | 6. $5 - 15s = 8 - 16s; 3$ _____ |
| 7. $2(x - 2) - 5x = 5(2 - x); 7$ _____ | 8. $6a + 3 = 3(3a - 2); 4$ _____ |

Is each equation true, false, or an open sentence?

- | | |
|---------------------------------------|--------------------------------------|
| 9. $14 = x - 9$
_____ | 10. $8 + 7 = 10$
_____ |
| 11. $4 - 15 = 22 - 33$
_____ | 12. $5 + x = 90 \div 9 + 4$
_____ |
| 13. $-7(5 - 9) = 19 - 3(-3)$
_____ | 14. $6(5 - 8) = 2(10 - 1)$
_____ |

Write an equation for each sentence. Is each equation true, false, or an open sentence?

15. One fifth of a number n is equal to -7 .

16. The product of 13 and -7 is -91 .

17. Fifty-four divided by six equals negative nine.

18. Seven less than the product of a number z and 3 is equal to 4.

Write an equation. Is the given value a solution?

19. A truck driver drove 468 miles on Tuesday. That was 132 miles farther than she drove on Monday. Let d represent the distance she drove on Monday. Did she drive 600 miles on Monday?

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