

Using Equations

Is the equation true for the given value of the variable?

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| 1. $x + 5 = 17$, $x = 22$ _____ | 2. $3 - y = 1$, $y = 2$ _____ |
| 3. $4x = 24$, $x = 6$ _____ | 4. $g - 7 = 11$, $g = 18$ _____ |
| 5. $s \div 7 = 3$, $s = 21$ _____ | 6. $u + 12 = 31$, $u = 20$ _____ |
| 7. $h - 13 = 21$, $h = 34$ _____ | 8. $64 \div n = 16$, $n = 8$ _____ |
| 9. $20 \times t = 300$, $t = 160$ _____ | 10. $18 - c = 10$, $c = 8$ _____ |
| 11. $m + 40 = 92$, $m = 50$ _____ | 12. $x \div 5 = 15$, $x = 75$ _____ |
| 13. $3k = 27$, $k = 9$ _____ | 14. $z - 9 = 61$, $z = 52$ _____ |
| 15. $12 + v = 21$, $v = 7$ _____ | 16. $5w = 20$, $w = 4$ _____ |
| 17. $n - 6 = 24$, $n = 18$ _____ | 18. $k \div 8 = 9$, $k = 56$ _____ |
| 19. $m + 12 = 61$, $m = 49$ _____ | 20. $j + 17 = 86$, $j = 79$ _____ |

Write an equation for each situation.

21. Jim had 18 CDs. He bought x more. Then he had 21 CDs. _____
22. Rolando baked 4 loaves of bread, each weighing w oz.
The total weight was 80 oz. _____
23. Veronica had m marbles. She gave 5 to Marco. She had
12 marbles left. _____
24. The lunch period at Eisenhower School is normally 35 minutes.
On Thursday, students were given an extra t minutes, so they
had 55 minutes for lunch. _____
25. Stella dealt an entire deck of 52 cards to make h hands.
Each hand had 13 cards. _____
26. **Careers** The average executive burns an average of
105 calories per hour at work. This is c calories more than
the average secretary, who burns 88 calories per hour. _____
27. **Social Studies** Each of the 50 United States has s U.S.
Senators. There are 100 U.S. Senators all together. _____