

Solutions for Equations and Inequalities

Tell which value(s) of the variable are solutions to the equation or inequality.

1. $p - 13 = 6$ $p = 17, 18, 19, 20$
2. $3.4 + c > 6$ $c = 1.1, 2.2, 3.3, 4.4$
3. $0.2 \leq g + 4$ $g = 0.1, 0.2, 0.5, 1.3$
4. $6 \geq 12 - d$ $d = 0, 2, 3, 5$
5. $r - 0 \geq 4.9$ $r = 3.4, 4.6, 7.7, 9$
6. $45 - 19.6 = b$ $b = 25.4, 64.6, 70$
7. $5 + q > 7.2$ $q = 0, 3, 5$
8. $18.2 + c < 18.2$ $c = 0, 3, 6, 9$
9. $7.6 + a = 9.7$ $a = 0.7, 1.1, 1.9, 2.1$
10. $x - 5 < 74$ $x = 85, 82, 80, 75$
11. $3.4 - y \leq 1.4$ $y = 3.3, 2.6, 1, 0$
12. $n + 10 \geq 41.2$ $n = 22, 28, 30, 31.1$
13. $9.6 - y \leq 4.3$ $y = 3.3, 3.6, 4.4, 5.5$
14. $0.6 + a = 1.3$ $a = 0.5, 0.6, 0.7, 0.8$
15. $\$7.26 - b = \3.01 $b = \$6.25, \$6.24, \$5.25, \4.25

16. Carole has spent \$14.65 of a \$20.00 gift card on a new T-shirt. Can she purchase \$4.55 worth of merchandise with the balance on the card? If $x = \$4.55$, use $\$14.65 + x \leq \20.00 to decide.
-
-

17. **Algebra** Which number when substituted for y is a solution to the following inequality?

$$y + 0.5 \geq 5$$

- A** 4.9 **B** 3.6 **C** 2.2 **D** 0.5

18. **Writing to Explain** Andre is running in a 5-kilometer race. He just passed the 3.2-kilometer mark and thinks that he has only 0.8 kilometer more to run. Use the equation $3.2 + d = 5$ to explain whether or not Andre is correct.
-
-