

Solving Two-Step Equations: math test solutions, Grade 7 – download the PDF

Test solutions with the detailed point scale. Add up your points and spot what to review.

Suggested time: 45 minutes. Out of 20 points. Calculator allowed only when the problem says so.

1 Solve four equations

/ 4 pts

- a. $3x = 21$, so $x = 7$. (1 pt)
- b. $\frac{x}{6} = 4$, so $x = 24$. (1 pt)
- c. $5x = 50$, so $x = 10$. (1 pt)
- d. $x + 9 = 20$, so $x = 11$. (1 pt)

2 Checking values

/ 3 pts

- a. $7(8) - 6 = 56 - 6 = 50$. Yes, it is a solution. (1 pt)
- b. $2(-3) + 11 = 5$, and $5 \neq 4$. No, it is not a solution. (1 pt)
- c. $2x = -7$, so $x = -3.5$. (1 pt)

3 Rational coefficients

/ 3 pts

a. Subtract 2: $\frac{3}{5}x = 9$. Multiply by $\frac{5}{3}$: $x = 15$. (1.5 pts)

b. Add 1.2: $0.4x = 3.2$. Divide by 0.4: $x = 8$. (1.5 pts)

4 Saving for a bike

/ 4 pts

a. $7.5w + 12 = 57$. (1 pt)

b. $7.5w = 45$, so $w = 6$. (2 pts)

c. Nora reaches \$57 after 6 weeks. Check: $7.5(6) + 12 = 57$. (1 pt)

5 Garden fence

/ 3 pts

a. $2(x + 6) = 34$. (1 pt)

b. $x + 6 = 17$, so $x = 11$. (1 pt) The garden is 11 m long. Check: $2(11 + 6) = 34$. (1 pt)

6 Number puzzle

/ 3 pts

a. Undo in reverse: $53 - 9 = 44$, then $44 \div 4 = 11$. (1.5 pts)

b. $4x + 9 = 53$, so $4x = 44$ and $x = 11$. (1.5 pts)



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