

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

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

1 Solve four equations

/ 4 pts

Solve each equation. Show your steps.

a. $3x + 8 = 29$

b. $\frac{x}{6} - 1 = 3$

c. $5x - 12 = 38$

d. $2(x + 9) = 40$

2 Checking values

/ 3 pts

a. Is $x = 8$ a solution of $7x - 6 = 50$?

b. Is $x = -3$ a solution of $2x + 11 = 4$?

c. Find the solution of $2x + 11 = 4$.

3 Rational coefficients

/ 3 pts

Solve each equation.

a. $\frac{3}{5}x + 2 = 11$

b. $0.4x - 1.2 = 2$

4 Saving for a bike

/ 4 pts

Nora has \$12 in her account and saves \$7.50 each week. She wants to reach \$57. Let w be the number of weeks.

- Write an equation.
- Solve it.
- Answer with a sentence.

5 Garden fence

/ 3 pts

A rectangular garden is 6 m wide and x meters long. The perimeter is 34 m.

- Write an equation of the form $p(x + q) = r$.
- Solve it and answer with a sentence.

6 Number puzzle

/ 3 pts

I think of a number, multiply it by 4 and add 9. The result is 53.

- Find the number with arithmetic only.
- Find it with an equation.



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