

Solving Linear Equations: math test, Grade 8 – download the PDF

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

1 Warm-up: one and two steps

/ 4 pts

No calculator. Solve each equation.

a. $2x - 9 = 7$

b. $-3y + 5 = -10$

c. $\frac{m}{5} + 2 = -1$

d. $7 = 2(p - 3) + 1$

2 Variables on both sides

/ 4 pts

Solve each equation and check your answer.

a. $6x + 1 = 2x + 17$

b. $5(2n - 1) = 3(3n + 2)$

3 Fractions and decimals

/ 3 pts

Solve each equation.

a. $\frac{2x}{3} - \frac{1}{2} = \frac{x}{6} + 1$

b. $0.5x + 0.25 = 2.75$

4 How many solutions?

/ 3 pts

Decide whether each equation has one solution, no solution, or infinitely many. Give the solution when there is exactly one.

a. $5x - 2 = 5(x - 1) + 3$

b. $3(2x + 1) = 6x + 5$

c. $4x + 7 = 2x - 1$

5 Print shop

/ 3 pts

Calculator allowed. Shop A charges a \$6 setup fee plus \$0.20 per page. Shop B has no setup fee and charges \$0.35 per page. Write an equation, find the number of pages for which both shops cost the same, and give that cost.

6 Consecutive even integers

/ 3 pts

The sum of three consecutive even integers is 90. Find them.



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