

Equations and Inequalities: math test solutions, Grade 6 – 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 the equations

/ 4 pts

- a. $x = 40 - 13 = 27$ (1 pt)
- b. $y = 72 \div 9 = 8$ (1 pt)
- c. $m = 3.5 + 6.5 = 10$ (1 pt)
- d. $k = 8 \times 7 = 56$ (1 pt)

2 Is it a solution?

/ 3 pts

- a. $4 \times 5 = 20$: yes. (1 pt)
- b. $11 + 7 = 18 \neq 17$: no. (1 pt)
- c. $24 \div 6 = 4$: yes. (1 pt)

3 Equations from stories

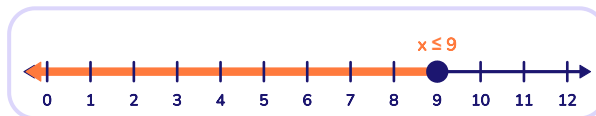
/ 4 pts

- a. Let m be the muffins sold later: $36 + m = 91$ (1 pt). So $m = 55$ (1 pt).
- b. Let p be each share: $4p = 52$ (1 pt). So $p = 13$: each friend pays \$13 (1 pt).

4 Inequalities

/ 4 pts

- a. $y < 12$ (1 pt)
- b. $w \leq 9$ (1 pt)
- c. Closed circle at 9 and a ray going left (1 pt):



- d. 7 and 9 are solutions; 10 is not (1 pt).

5 The museum

/ 3 pts

- a. $78 + v \leq 120$ (1 pt)
- b. $v \leq 42$ (1 pt)
- c. No, because $45 > 42$: the total would be 123, above the limit (1 pt).

6 The flower bed

/ 2 pts

- $9w = 63$ (1 pt). So $w = 7$ ft, about 2.1 m (1 pt).



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