

Equations and Inequalities: math test, Grade 6 – download the PDF

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

1 Solve the equations

/ 4 pts

a. $x + 13 = 40$

b. $9y = 72$

c. $m - 6.5 = 3.5$

d. $\frac{k}{7} = 8$

2 Is it a solution?

/ 3 pts

a. Is 5 a solution of $4x = 20$?

b. Is 11 a solution of $x + 7 = 17$?

c. Is 24 a solution of $\frac{z}{6} = 4$?

3 Equations from stories

/ 4 pts

- a. A baker sold 36 muffins in the morning. By closing time she had sold 91 muffins. Write an equation and find how many she sold after the morning.
- b. Four friends share a \$52 bill equally. Write an equation and find what each pays.

4 Inequalities

/ 4 pts

- a. Solve $y - 7 < 5$.
- b. Solve $6w \leq 54$.
- c. Draw the solutions of $w \leq 9$ on a number line from 0 to 12.
- d. Which of 7, 9 and 10 are solutions of $w \leq 9$?

5 The museum

/ 3 pts

A museum allows at most 120 visitors inside at once. There are already 78 people inside, and v more want to enter.

- a. Write an inequality.
- b. Solve it.
- c. Can 45 more people enter? Explain.

6 The flower bed

/ 2 pts

A rectangular flower bed is 9 feet long and has an area of 63 square feet. Write an equation for its width w and solve it. Give the answer in feet and in meters (1 ft is about 0.3 m).



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