

Grade 6 - Solving One-Step Equations - Test

Common Core 6.EE.B.5, 6.EE.B.6, 6.EE.B.7 · maths-pdf.fr/en/

Name: _____ Class: _____ Date: ____/____/____

This 45-minute test has 9 questions worth 20 points. It covers testing solutions, one-step equations with rational numbers, and writing equations for word problems (Common Core 6.EE.B.5, 6.EE.B.6, and 6.EE.B.7). Show your steps.

About this test

- Grade: Grade 6
- Chapter: Solving One-Step Equations
- Standards: 6.EE.B.5, 6.EE.B.6, 6.EE.B.7
- Time: 45 minutes
- Total: 20 points

Question 1 - Solution check [2 pts]

- Is 7 a solution of $x+5=12$?
- Is 6 a solution of $2x=14$?

Question 2 - Solve [2 pts]

- Solve $x+8=21$.
- Solve $x-5=12$.

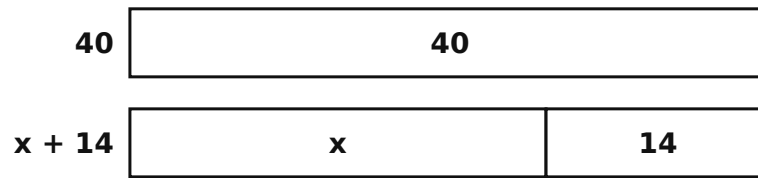
Question 3 - Solve products and quotients [2 pts]

- Solve $6x=54$.
- Solve $\frac{x}{4}=9$.

Question 4 - Rational numbers [2 pts]

- Solve $x+2.4=7.1$.
- Solve $\frac{3}{4}x=6$.

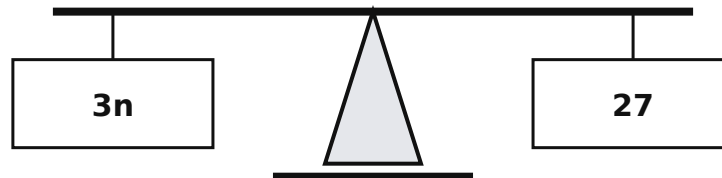
Question 5 - Tape diagram [2 pts]



The whole is 40.

Write the equation shown by the tape diagram and solve it.

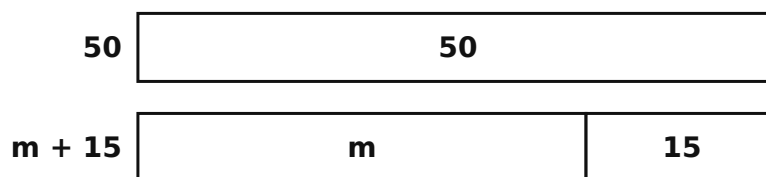
Question 6 - Balance [2 pts]



A balanced scale.

The scale is balanced. Write an equation and find n .

Question 7 - Write and solve [2 pts]



Ethan's reading time.

Ethan reads for m minutes. After he reads 15 more minutes, he has read 50 minutes in all. Write an equation and find m .

Question 8 - Pizza party [3 pts]

A pizza party costs \$84 for 7 identical pizzas. Write an equation for the price p of one pizza and solve it. Then find the cost of 10 pizzas at that price.

Question 9 - Two-part problem [3 pts]

Sofia buys a book and a pen. The pen costs \$3. Together they cost \$11. Write an equation for the price b of the book and solve it. Then find the cost of 4 books at that price.