



Writing & solving equations

GRADE 7 MATH

Name _____

Date _____

Do this on your own — the worked example shows what to do. Write the equation, solve, then check.
One skill: **writing and solving equations**.

WORKED EXAMPLE

Undo in reverse order: addition and subtraction first, then multiplication and division. 'Less than' reverses the order you read it in. Always substitute back into the original equation.

1. Solve $7x + 2 = 37$.

FLUENCY

Show your thinking

Answer

2. Solve $9x - 6 = 30$.

FLUENCY

Show your thinking

Answer

3. Solve $4x + 15 = 3$.

APPLICATION

Show your thinking

Answer

4. Solve $\frac{1}{3}x - 2 = 4$.

APPLICATION

Show your thinking

Answer

5. Solve $20 - 4x = 8$, and check your answer.

APPLICATION

Show your thinking

Answer

6. A gym charges \$6 to join plus \$4 per visit. A member paid \$26. Write and solve an equation, and say what the answer means.

REASONING

Show your thinking

Answer

7. Solve $2x + 2x + 6 = 26$. What should you do before undoing anything?

REASONING

Show your thinking

Answer

8. Write an equation for “7 less than twice a number is 9”. Solve it, and explain why the equation is not $7 - 2x = 9$.

REASONING

Show your thinking

Answer