

Solving Two Step Equations $x/a + b = c$

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- use the opposite operation to isolate the variable.
- Follow Reverse BEDMAS: ① Add/sub
② mult/divide
- same thing to both sides.

① solve and check:

a) $\frac{x}{3} + 5 = -11$

~~-5~~ -5

~~$3 \cdot \frac{x}{3}$~~ $= -16 \cdot 3$

$x = -48$

check: $\frac{-48}{3} + 5 = -11$

$-16 + 5 = -11$

$-11 = -11$ ✓

b) $10 = 7 - \frac{x}{4}$ ← don't leave the negative behind!

~~-7~~ $+7$

~~$4 \cdot 3$~~ $= \frac{-x}{4} \cdot 4$

$12 = -x$

$-12 = x$ ← SIGN CHANGE!

check: $10 = 7 - \frac{-12}{4}$

$10 = 7 - -3$

$10 = 7 + 3$

$10 = 10$ ✓

⊛ IF you have a question that says:

"Is $x = 5$ the solution?" Just do a CHECK!
(do not solve)