

Two-Step *Equations*

7.EE.B.4

Name _____ Date _____

Solve each equation by undoing the operations in reverse order: first add or subtract, then multiply or divide. Show your work and check your answer.

1. Is $x = 4$ a solution of $3x + 2 = 14$? Write yes or no and explain in one sentence.

2. Solve for x :

$$2x + 5 = 13$$

3. Solve for n :

$$3n - 7 = 8$$

4. Solve for y :

$$\frac{y}{4} + 6 = 10$$

5. Solve for a :

$$5a + 9 = 9$$

6. Solve for m :

$$\frac{m}{3} - 2 = 4$$

7. Solve for x :

$$-2x + 11 = 3$$

8. Solve for t :

$$4t - 3 = 10$$

9. Solve for p :

$$\frac{p+5}{2} = 7$$

10. Solve for w :

$$1.5w + 4 = 13$$

11. Which equation has the solution $x = 7$?

A) $2x + 1 = 12$

B) $3x - 4 = 17$

C) $\frac{x}{2} + 1 = 7$

D) $5x - 3 = 30$

12. Write an equation for the sentence, then solve: "Six more than four times a number x is 30."

13. A taxi charges a \$3 flat fee plus \$2 per mile. A ride cost \$17. Write and solve an equation to find the number of miles m .

14. Lena joined a gym with a \$20 sign-up fee and equal monthly payments. After 5 months she had paid \$95 total. Write and solve an equation to find the monthly payment p .