Name _____ Date _____

Two-Step Equations: Solve, Write and Work Backward

Directions: Answer each question. Type number answers with digits and a decimal point only.

1. Solve $4x + 9 = 37$. What is x?

_____

2. Solve $2(x + 1.5) = 14$. Type the value of x as a decimal.

_____

3. A kayak rental costs a $15 safety fee plus $12 for each hour. Lucas paid $63 in all. Which equation can be used to find h, the number of hours he rented the kayak?

A. $12h - 15 = 63$
B. $12(h + 15) = 63$
C. $15h + 12 = 63$
D. $12h + 15 = 63$

4. Nia has $38 saved. She adds $15 to her savings each week and spends none of it. After how many weeks will she have $128 saved?

_____ weeks

5. Find the value of x that makes $(3/4)x - 2 = 10$ true.

_____

6. Omar multiplies a number by 6, then subtracts 8. The result is 40. Which steps, done in order, find Omar's number?

A. Start with 40. Add 8, then divide by 6.
B. Start with 40. Add 8, then multiply by 6.
C. Start with 40. Subtract 8, then divide by 6.
D. Start with 40. Divide by 6, then add 8.

7. A coach buys 6 team shirts. Each shirt has the same regular price and is on sale for $2.50 off that price. The coach pays $93 in all, with no tax. What is the regular price of one shirt, in dollars?

_____ dollars

8. Dev solved $3(x + 7) = -6$. His work is shown.

1. $3x + 21 = -6$
2. $3x = 15$
3. $x = 5$

Which step has the first mistake?

A. There is no mistake.
B. $x = 5$
C. $3x = 15$
D. $3x + 21 = -6$