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## Quiz Solving Multi-Step Equations

Solve each equation. SHOW ALL WORK!!!

1. $-10-6 x=-34$
2. $\frac{2}{3} x+9=-11$
3. $\frac{x}{5}-9=-4$
4. $\frac{-4}{5}(x+8)=12$
5. $-(b+4)=-18$
6. $5(x-8)=-20$

For each word problem below: read the problem, write the equation that represents the situation, and find the solution!
7. An online retailer charged $\$ 6.99$ plus 55 cents per pound to ship electronic purchases. How many pounds is a DVD player for which the shipping charge is $\$ 11.94$ ?

Equation: $\qquad$
$\qquad$
8. Suppose your school is selling magazine subscriptions. Each subscription costs $\$ 12$. The school must also pay a 1 -time fee of $\$ 18$. Write and solve an equation to determine the number of subscriptions that can be sold to earn a profit of \$246.

Equation: $\qquad$

## Solution:

$\qquad$
9. The length of each side of a square is increased by 6 inches, so the perimeter is now 36 inches. Write and solve an equation to find the original length of each side of the square.

## Equation:

$\qquad$

## Solution:

$\qquad$
10. Mrs. Palmer bought one pair of goggles, one bathing suit, and one beach towel for each of her three daughters.

| Item | Price (\$) |
| :--- | :--- |
| Goggles | 6 |
| Bathing suit | 25 |
| Beach towel | 13 |

Suppose she had $\$ 18$ left after buying the swimming items. Write an equation to find the amount Mrs. Palmer originally had to spend on each daughter.

## Equation:

$\qquad$

Solution: $\qquad$

