Quiz Solving Multi-Step Equations

Solve each equation. SHOW ALL WORK!!!

1.
$$-10 - 6x = -34$$

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. $5(x - 8) = -20$

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:_____

Solution: __

δ.	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:			
			Solution:	
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:			
			Solution:	
10	. Mrs. Palmer bought one ր her three daughters.	pair of goggles, o	one bathing s	suit, and one beach towel for each of
		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:			

Solution: _____