	Name
	Period
Real-World Algebra Assignment #2	
1. Sierra Custom Plumbing charges \$70 for a s a. What would Sierra Custom Plumbing charge for a job that takes three and one-half hours?	service call, plus an hourly rate of \$20. b. Write an <b>algebraic expression</b> for the cost of a plumbing job that takes <i>h</i> hours.
c. Write an equation for a plumbing job that takes <i>h</i> hours and costs \$425, then solve for the number of hours worked.	d. You have a <b>major</b> plumbing problem in your house. You look in your checking account and find that you only have \$581. Write an <b>equation</b> , then solve for the number of hours you could have the plumber work.
2. ATT charges \$7.43 for the monthly fee plus a. What would be the phone bill be if you called 100 minutes?	7 cents per minute. (reminder, 7 cents = \$0.07) b. What would be the phone bill be if you called 263 minutes?
c. Write an algebraic expression for the cost of <i>m</i> minutes of calls?	d. Write an <b>equation</b> for a month with <i>m</i> minutes of phone calls that costs \$36, then solve for the number of minutes called.

4. 8y - 10 = 2

5. 4(3+5w) = -11

6. -7(h+2) = 12

7. 7 = x + 4(2 + x)

8. 20+3(x+5)=3

9. 120 - 8(4 + 9x) = 710.  $\frac{2}{3}n + 16 = 2$