Name			Date	
Rewrite each equation to isolate the indicated variable.				
1.	7ab = c solve for a			
2.	y=4x + 6 solve for x			
3.	df=g+32 solve for d			
4.	1.5s – 4=t solve for s			
Choos	e the best answer.			
5.	Which of the following is equivalent to the equation 4x + 7y= z?			
	A. X=4z -28y	B. X= $\frac{(z-7y)}{4}$		
	C. Y= 7z + 28x	D. $Y = \frac{(z+4x)}{7}$		
6.				
	A. A=5c-9-3b	B. B= $-\frac{1}{3}(5c - 9 - a)$		
	B. $5 = \frac{(a+3b+9)}{c}$	C. $3 = \frac{(5c - 9 - a)}{b}$		
7.				
	the resistance. a. Rewrite the equation to isolate I			
	b. If V=220 volts and R= 4 ohms, what is the value for I?amperes.			
	c. Rewrite the equation to isolate R			
d. If V=550 volts and I=1.5 amperes, what is the value of R?ohms				
8.				
	hour for a job. The equation C =	25h + 350 describes the	cost, c for a job that takes h hours.	

a. Rewrite the equation to isolate h._____

b. If a job cost \$950, how many hours did it take?_____

- 9. At Turner Field, hot dogs cost \$2.25 and drinks cost \$1.75. The total cost, t, for h hot dogs and s sodas can be described by the equation t= 2.25h + 1.75d.
 - a. Rewrite the equation to isolate h. _____
 - b. If Cooper spent \$18.25 and bought 5 hot dogs, how many sodas did he buy? _____
- 10. The weight, in newtons, of an object in a particular location is equal to it's mass, in kilograms, time the gravitational acceleration in that location. As a formula, this is written w=mg, where w=weight, m=mass, and g=gravitational acceleration.
 - a. Neil Armstrong had a mass of 80kg on Earth. On Earth's surface, the gravitational acceleration is g=10 newtons per kilogram. What was Niel's weight on Earth?

b. Rewrite the equation to isolate g._____

- 11. The distance formula is d=rt, where d is the distance, r is the rate, and t is the time.
 - a. Rewrite the equation to isolate r._____
 - b. Aaron Murray drove from Athens to Atlanta in 1.5 hrs, 70 miles away, before he flew out for Kansas City. What was his rate of speed in miles per hour?_____
- 12. Baseball Express charges \$25 for a pair of batting gloves, \$35 for a dozen baseballs, and \$15 for armbands. The total cost spent, t, can be described by t=25g +35b+15a. In April, Coach Kelly got a bill from Baseball Express for \$385. He bought 8 dozen baseballs, and 2 armbands. If he wants to figure out how many pairs of batting gloves he bought, which variable should he solve for? Solve the equation to see how many batting gloves Coach Kelly bought.