1) Write an equation that shows three less than twice the sum of a number x and 7 is four,

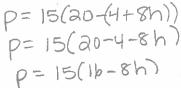
2) Given the formula for converting a temperature from degrees Celsius C to degree Fahrenheit F, solve it for F.

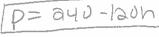
$$\frac{9}{5}$$
 $C = \frac{5}{9}(F - 32) \cdot \frac{9}{5}$

3) Solve the equation 5(x + 3) + 10x + 25(2x) = 340.

$$65x = 325$$

4) Deluxe Cleaners charges \$20 to dry clean a tuxedo. They pay an employee \$8 per hours to clean tuxedos and use \$4 worth of dry cleaning fluid on each tuxedo. The profit for this service can be determined using p = x[20 - (4 + 8h)]where p is profit in dollars, h is the number of hours employee is paid, and x is the number of tuxedos cleaned. Write a simplified equation for the profit earned from cleaning 15 tuxedos.





- 5) The expression 2T + 3F + 4M + 10E gives the number of points a student earns on a test when the student correctly answers T true/false questions, F fill in the blank questions, M multiple choice questions, and E extended response questions. Which statement below is NOT true?
 - a) The coefficient 2 indicates that each correct true/false question earns 2 points.
 - b) The coefficient 3 represents the points earned for each fill in the blank question.
 - (c)) The term 10E represents the total number of points earned from 10 extended response questions.
 - d) The term 4M represents the total number of points earned from M multiple choice questions at 4 points per question.
- 6) Create a table of 5 ordered pairs that:
 - a. represents a function

- b. does NOT represent a function
- c. Give the domain and range for the relation given in part a.
- 7) Sketch a graph that:
 - a. represents a function

b. does NOT represent a function

9) The cost C of a lawn maintenance service is \$45 per month plus an additional \$8 per visit ν to your house.

b. Find the cost for a month where the lawn service came to your house 5 times.

10) Given the function $f(x) = -2x^2 - 7x + 10$, find:

a.
$$f(3)$$

For 11 - 16, solve each equation.

11)
$$2m + 12 = 3m - 31$$

$$m = -413$$

13)
$$\frac{2}{3}v - 6 = 6 - \frac{2}{3}v$$

15)
$$\frac{c-5}{4} = 3$$

12)
$$3(5j + 2) = 2(3j - 6)$$

$$9j = -18$$

14)
$$\frac{w}{7} + 3 = -1$$

16)
$$4 = 3a - 14$$