Key

1) A plumb bob and a Gammon reel cost, together, $23.00. If the Gammon reel costs $13.00 less than the plumb bob, find the cost of each.

$x+(x+13)=23$

x = ***Gammon Reel = $5***

x+13 = ***Plumb Bob = $18***

2) Nick, Fred and Tom are all working for a survey company. Nick earns 2 times as much as Fred, and Tom earns 3 time as much as Nick. If the total amount earned by all is $900, how much does each man get?

$2x+x+3(2x)=900$

2x = ***Nick = $200***

x = ***Fred = $100***

3(2x) = ***Tom = $600***

3) An architect's drawing has a stated scale of 3/16" = 1'. If the length of a parking lot is to be 252 feet on the ground, how long will it be (in inches) on his drawing?

$\frac{3/16}{1}=\frac{x}{252}$

x = ***47.25 inches***

4) Find 4 consecutive odd numbers whose sum is 88.

$x+(x+2)+(x+4)+(x+6)=88$

x = 1st number

19, 21, 23, 25

5) Three students together earned $1200. The first earned twice as much as the second, and the third earned $200 less than twice as much as the first. How much did each student earn?

$2x+x+[2(2x)-200]=1200$

2x = ***1st = $400***

x = ***2nd = $200***

2(2x)-200 = ***3rd = $600***

6) If 3 lbs. of hamburger cost $3.87, what is the cost of 5 lbs.?

$3/3.87=5/x$

x = ***$6.45***

7) A wildlife management team, conducting a study of a particular lake, caught, tagged and released 75 Black Bass. Several weeks later they caught 125 Black Bass and observed that 3 of them were tagged. What is the total number of Black Bass they could expect to be present in the lake?

$3/75=125/x$

x = ***3,125 Black Bass***

8) The difference between a number and one-quarter of that same number is 51. Find the two numbers.

$x-x/4=51$

x = ***68***

x/4 = ***17***

9) If one Gunther's chain is equal to 66.00 feet, how many feet are there in 80 Gunther's chains?

$1/66=80/x$

x = ***5280 ft.***

10) On a road map two cities are 4 inches apart and the distance between them is 280 miles. What is the distance (in miles) between two cities that are 2 ¾" apart?

$4/280=2.75/x$

x = ***192.5 mi.***