

Name _____ SHOW necessary work (on back or separate piece of paper) HW # 7

Solve the equation, using all 3 lines (you do not have to rewrite line 1)

$$3 + n = 27$$

$$f - 19 = 13$$

$$w + 4.75 = 13.9$$

$$y - 5\frac{3}{5} = 8\frac{1}{3}$$

$$3\frac{1}{2} + 1\frac{1}{3} = y - 5\frac{3}{4}$$

$$43.6 - 0.51 = 13.1 + y$$

Tell whether the value is the solution of the equation (use the 3 lines!).

$$5 - n = 1.5 ; n = 4.5$$

$$6\frac{1}{5} + n = 13\frac{1}{3} ; n = 7\frac{1}{5}$$

Write an equation for these problems, you DON'T have to solve the equation!

31 less than a number y is 46

A number y decreased by 3 is 18

32 equals 3.7 more than a number y

A price of a new Corvette is \$59,000 after they give you \$6500 for your old Camaro. Write and solve an equation to find out what the price, y , of the Corvette was before you traded in your old Camaro.

After years of digging in your back yard in an attempt to reach the other side of the world, you finally stop and measure your hole to be 5 yards deeper than your neighbor's hole represented. Write and solve an equation for how deep your hole is, y , if your neighbor's hole is 51 feet deep.

You play in a local basketball league. Over the past 4 games you have scored 34 points. In game one, you scored 10 points, in game 2 you score 8 points and in game 3 you scored 5 points. Write and solve an equation for how many points you score in game 4, represented by h .

You won \$200 on a scratch off ticket in the Florida lottery. You decide that you are going to finally buy that new gaming system you have always wanted. The price is \$350 but since you live for playing video games you decide to go for it. You take your lottery winnings and add it to the money you already have saved from doing chores around the house and washing your mom's car. After you make that purchase, you have \$29 leftover. Write and solve an equation to find how much money you had, y , before you bought your awesome gaming system. (Clue: the equation will involve more terms than a typical problem)