# The hay baler problem essay sample 

POW6 was named, " The Hay Baler Problem", it was about a hay baler who had just finished weighing five bales of hay. The bales was in combinations of two. He weighed bale 1 with 2,1 with 3,1 with 4 , and every other twobaled combination. In the end, he came up with a set of 10 different weights. And it is your job to find out what each bale weighs by its self.

Processt I thought of every combination of bales. I ended up getting ten different combinations. The weights are listed in order of numbers not in order of weight in pairs of bales. So I knew I needed to figure out the heaviest and the lightest bales.. The smallest combination of bales is 80 so I will divide that by 2 and I get 40 so I know that both numbers will be around 40 I switched the numbers 1-5 for the variables $a-e$. So $a=1, b=2, c=3, d=$ 4, and $e=5 a+b 39+41=80 a+c 39+43=82 a+d 39+44=83 a+e 39$ $+47=86 b+c 41+43=84 b+d 41+44=85 b+e 41+47=88 c+d 43+$ $44=87 c+e 43+47=90 d+e 44+47=91$ SOLUTION: The weight of the bales of hay is $39,41,43,44$, and 47 . I know that I am right because all of the combinations work out so that they all fit exactly right and if you added any 2 bales of hay together they would equal one of the combinations witch are $80,82,82,84,85,86,87,88,90$, and 91 .

Self Assessment: I would give myself a 90 on this pow because i put good efort into it. Also I showed all my work.

