Materials:
1 $10 bill
2 $5 bills
2 $1 bills
Paper lunch bag
Pencil
Recording sheet
Partner for each student

Procedure:
1. Selected partner
2. Placed all the bills in the paper lunch bag
3. Shook the paper lunch bag
4. Pulled 2 bills from paper lunch bag without looking
5. Recorded the amount of money pulled from the bag
6. Put bills pulled back into bag
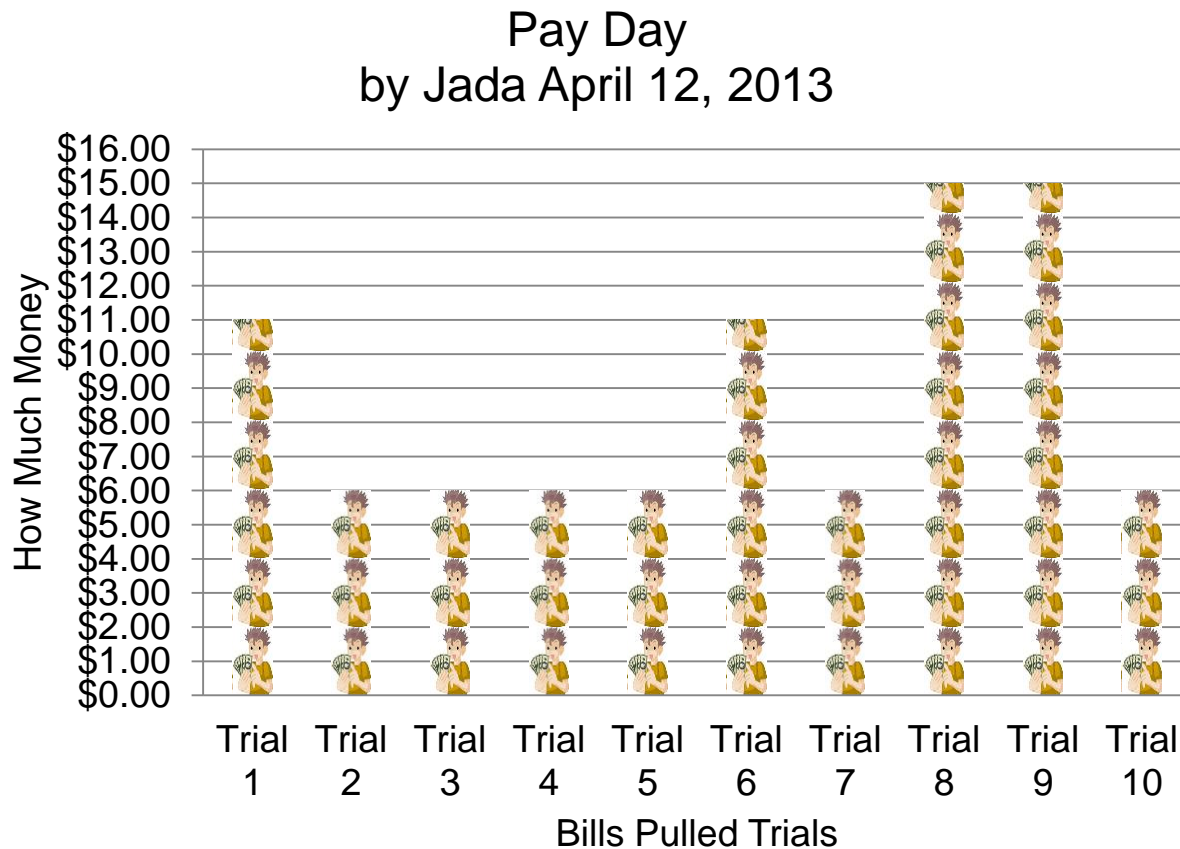7. Repeated steps 3-5 nine more times

Jada
April 25, 2013

How Much Allowance? Probability Investigation

Purpose: Would it be better to earn $10 each week for doing chores around the house?

Hypothesis: I think earning $10 each week will help me save the most money toward the purchase of a car.

Pay Day
by Jada April 12, 2013

(Bar graph titled "Pay Day". Y-axis: "How Much Money" from $0.00 to $16.00. X-axis: "Bills Pulled Trials" — Trial 1 through Trial 10. Values: Trial 1 = $11.00, Trial 2 = $5.00, Trial 3 = $5.00, Trial 4 = $5.00, Trial 5 = $5.00, Trial 6 = $11.00, Trial 7 = $5.00, Trial 8 = $15.00, Trial 9 = $15.00, Trial 10 = $6.00)

Results:
What I've observed during the experiment was that since there were more $5 bills and $1 bills in the bag, it was more likely to get $6 other than $11, $15, or $16.

Conclusion:
The result of the experiment was that you would get more money by doing chores and getting $10 each week.

Additional Questions or Comments:
You could make more money by taking the 2 bills each week, but it would take longer, knowing that there is only one $10 bill in the bag. You could gain more faster by earning $10 each week.