

## CALIFORNIA STATE SCIENCE FAIR 2002 PROJECT SUMMARY

Name(s)	Project Number
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Project Title	$\mathcal{O}$
Tails Up	
Abstract	
Objectives/Goals	that and an heads until
you get all tails? Also, do the results vary if you use pennies, nickles dimes, or	filty-cent coins?
Methods/Materials	
rular. My materials were Lego's, ten quarters, ten pennies, ten nickels, ten nickel	Lego's. Secondly, I placed
the quarters at the edge of th Lego structure. Thirdly, pished all of the quarter	rs off of the structure at the
same time. Fourthly, I recorded how many quarters landed with the tails side u of the coins that landed with the heads side up. Then I repeated steps two to fi	p. Fifthly, I re-dropped all ve until all of the quarters
landed with the tails side up. After that, I repeated steps two to six using pennic	es, nickels, dimes, and
fifty-cent coins. Finally, I cleaned up.	
The average number of times dropped were: quarters hour; pensies live; nickel	d, five; dimes, five; and
fifty-cent coins, four.	
The conclusion of my results was that the averages are constant. The typical nu	umber of times dropped for
quarters is four. Four and five tenth, punded to five, is the kandered number	of drops for pennies. The
drops is four and eight tenths, or five, for times. Finally the average number of	f times dropped for
fifty-cent coins is four.	
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Summary Statement	
I dropped ten quarters and re-dropped all the ones that landed on heads until I g	ot all tails and I saw if the
resurts varieuri i useu pennies, niekeis, unies and mity-cent coms.	
Help Received	
Mother helped get supplies	