

Name _____ Date _____

Description of Investigation and Student Report
Be an Investigator

Dear Investigator _____,
(name)

Please help me. My job is to arrange a convention for different collectors clubs. At the convention, the collectors clubs sell what they collect. For example, the marble collectors sell marbles. The presidents of the clubs have asked me to give them a way to quickly get an estimate of the number of items they have sold during a convention. They sometimes lose track of this because everything happens so quickly.

I have been thinking about how to do this and here is my idea. If each club president gives me the average price of the items their club has for sale, I could give them an equation where they can put in the amount of money collected and get an estimate of the number of items sold.

I would like you to write an equation that each of the clubs can use. I would like you to also give an example of how each one of the clubs can use the equation with a given amount of money collected and the average price per item.

Thank you so much for helping me with this. I know the clubs will be very happy to have an equation they can use.

Sincerely,

Ken Washington
President
Collectors Conventions, Inc.

Name _____ Date _____

Data Sheet

Marble Collectors Club

Average price of a marble: \$3

Total sales to use in equation: \$48

Stamp Collectors Club

Average price of a stamp: \$7

Total sales to use in equation: \$161

Doll Collectors Club

Average price of a doll: \$23

Total sales to use in equation: \$322

Name _____ Date _____

**Be an Investigator
Student Report**

Dear Mr. Washington,

Here is an equation that each club can use.

Equation:

I've also showed you how each club can use the equation, inputting the total sales figure you gave me.

Marble Collectors Club**Stamp Collectors Club****Doll Collectors Club**

I hope the clubs make a lot of money.

Yours truly,

Investigator _____
(your name)