

Materials Needed:

Paper, washers, colored markers, ruler

Instructions:

Divide into pairs. Place the sheet of paper on the desk and tape it down on the edge closest to you. Place a washer behind the line and flick the washer with your finger, trying to get it as close to center of the target as possible. Mark the center of the washer with a dot and then repeat until there are at least five marks on the paper.

Now, let the other partner flick the washer. Mark the centers with a different color (or perhaps an x instead of a dot).

- Record the location of each mark using an x-y coordinate system. Give all values with one decimal place (to the nearest mm).

a. First person's name: _____

| | | | | | | |
|-----|--|--|--|--|--|--|
| x | | | | | | |
| y | | | | | | |

b. Second person's name: _____

| | | | | | | |
|-----|--|--|--|--|--|--|
| x | | | | | | |
| y | | | | | | |

- Complete the following tables for your points. Your partner will use his/her points.

| | | | | | | | |
|-------------------|--|--|--|--|--|--|--------------|
| x | | | | | | | total |
| $x - \bar{x}$ | | | | | | | |
| $(x - \bar{x})^2$ | | | | | | | |

