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11/6/2025
8th grade Science
Science Fair Logbook

Logbook

Title:

- Does the price of the golf ball affect the distance it travels?

Objective:

- In this experiment I am trying to figure out if the price of a golf ball affects the distance it travels.

Statement of the problem:

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The problem in this experiment is does the price of a golf ball affect the distance it travels.

Dependent and Independent Variable:

- Independent: Price of the golf ball ($1, $3, $5 per ball)
- Dependent: Distance the golf ball travels (measured in yards)
- Controlled: Club used, swing speed, launch angel, testing environment

Hypothesis:

- If the price of a golf ball increases, then the distance it travels will also increase when hit with the same force because I believe that the more they cost the better the efficiency with the bounce and roll.

Materials:

- Golf club- driver =1

- 7 Iron golf club
- Golf balls =3
- Tape measure=1
- Pencil and note book to collect and record data

Procedures:

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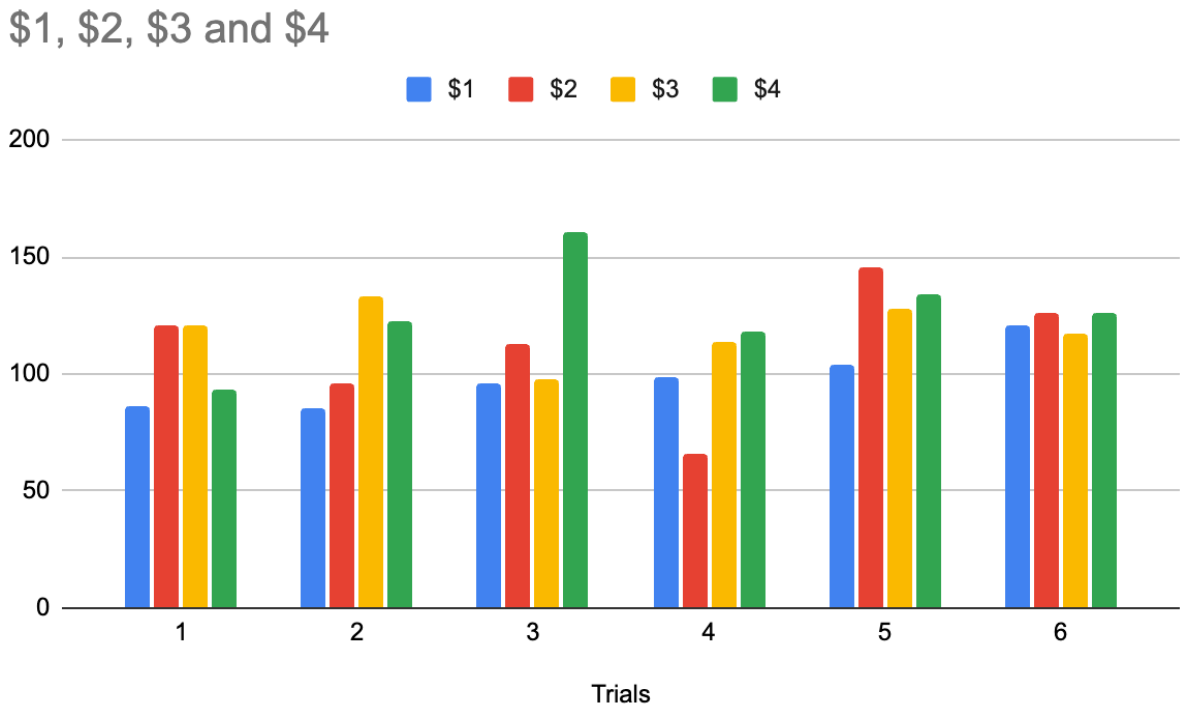
- Step 1:Place the cheapest golf ball on the tee and swing the ball.
- Step 2:Next hit the middle priced ball.
- Step 3:Then hit the most expensive golf ball.
- Step 4:Record the data with a tape measure and clip board.
- Step 5: Repeat the step 10 more times.



Results:

- Narrative: My results showed that all the golf balls were close in distance. The far shots were close with them being 121yd for the one

dollar, 146yd for the two dollar, 128yd for the three dollar, and 126yd for the four dollar..

Conclusion:

I did accomplish my objective because the higher the price of the golf ball the farther it went. These results support the hypothesis that more expensive golf balls would travel farther. This may be because higher price golf balls are made with better materials and designs that allow them to apply further when hit with the same amount of force. The overall trend was consistent across the trials; these findings suggest that price may have an effect on how far the golf travels. I learned that the price may have an effect on the distance but weather and altitude also have a factor. If I did the experiment again I would change the golf club I used and the power put into each shot.

Pictures:

- All pictures/captions should be added to the slide presentation only.

References:

Science Buddies Staff. (2020, November 20). *Are More Expensive Golf Balls Worth It?*

Retrieved from

https://www.sciencebuddies.org/science-fair-projects/project-ideas/Sports_p015/sports-science/are-more-expensive-golf-balls-worth-it

https://www.education.com/activity/article/pricier-golf-balls-better/
Unknown middle school student 6th grade
Education.com
Are Pricier Golf Balls Better