

Veering Path Study

Directions: Circle the letter of the best answer for the following questions.

1. What is the dependent variable in this investigation?
 - a. length of path
 - b. distance veered from path
 - c. length of person's natural stride
 - d. graphed data
2. What is the independent variable in this investigation?
 - a. length of person's natural stride
 - b. graphed data
 - c. distance veered from path
 - d. length of path
3. What would be the control in this investigation?
 - a. walking the path blindfolded
 - b. walking the path without a blindfold
 - c. walking the path backwards
 - d. walking the path barefoot
4. What safety procedure was followed in this investigation?
 - a. team members monitored each other's safety
 - b. team members timed each other's progress
 - c. team members recorded each other's results
 - d. team members measured veering distance
5. Why is the safety procedure discussed in question 4 included in this investigation?
 - a. so that team members accurately record results
 - b. so that team members are not injured
 - c. so that team members complete the investigation
 - d. so that team members measure accurately
6. The Y axis of your graph represents ____
 - a. the veering path
 - b. the amount of participants
 - c. the straight line
 - d. the age of participants
7. What would be the appropriate graph to record your data in this investigation?
 - a. double bar graph
 - b. scatter graph
 - c. pictograph
 - d. double line graph

8. What statement best describes the hypothesis of this investigation?
- a. a blindfolded person will not be able to complete this investigation
 - b. a blindfolded person will not hear the directions
 - c. a blindfolded person's path will veer from a straight line
 - d. a blindfolded person will lose his/her balance
9. The main purpose of a control in this investigation was to
- a. make certain that no other factors (variables) affected the outcome of the investigation
 - b. make certain that several factors (variables) affected the outcome of the investigation
 - c. control the person's stride
 - d. control the distance veered from the straight line
10. Which of the following would **not** be an acceptable change to this schoolyard investigation?
- a. change the length of the straight line
 - b. conduct investigation on a hillside
 - c. cover one eye only of the participant
 - d. change the length of participant's stride (baby/giant steps)

Answer Key

1. b

2. d

3. b

4. a

5. b

6. c

7. d

8. c

9. a

10. b