

Figure 5.3 Experimental Investigation: And the Beat Goes On

A. Question: What is the relationship between _____ and _____?

B. Hypothesis: I think _____

C. Variables: Independent and Dependent

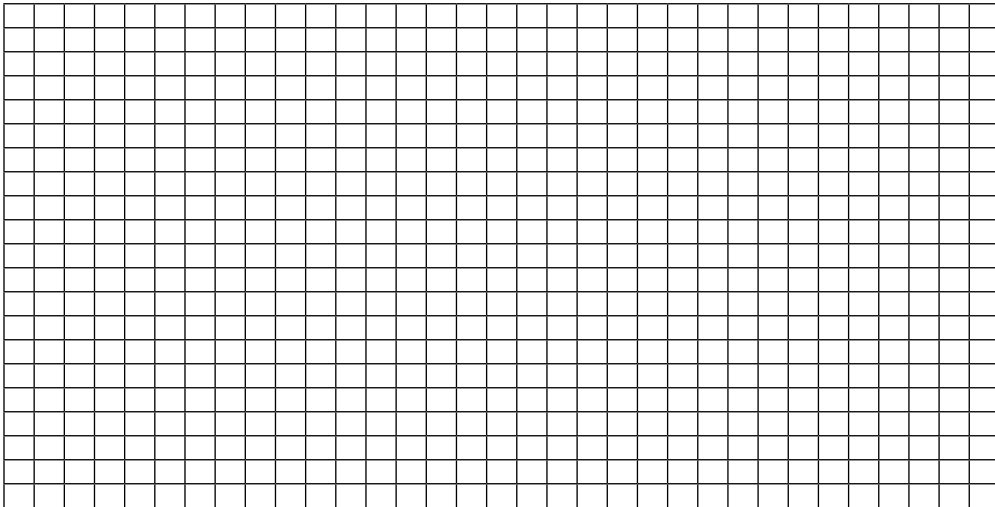
Independent Variable (IV) _____	Dependent Variable (DV) _____
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D. Directions

1. Work with a partner. Be sure to have a watch with a second hand, and a copy of this worksheet to record data.
2. Count the number of heartbeats for 1 minute after each activity. Take your pulse at your wrist or throat.
3. Fill in the information on the “t” table for you and your partner.

Types of Activity	Pulse at rest	Pulse after slow walking	Pulse after quick walking in place	Pulse after jogging in place
Number of heartbeats per minute	Trial no. 1 =	Trial no. 1 =	Trial no. 1 =	Trial no. 1 =
	Trial no. 1 =	Trial no. 1 =	Trial no. 1 =	Trial no. 1 =
	Trial no. 1 =	Trial no. 1 =	Trial no. 1 =	Trial no. 1 =
	_____	_____	_____	_____
	Average =	Average =	Average =	Average =

E. Graph the results from the “t” table by plotting the averages for each activity. Label the x-axis and y-axis.



(Continued)

Figure 5.3 (Continued)

F. Describe the results (three sentences)

1. Write (or orally share) what you did.
2. Look at the graph, describe in writing (orally) what it says, tell its story.
3. Describe what you found out about the relationship between _____ and _____.
4. Describe the relationship between the IV and DV.

G. Write the conclusion (three sentences)

1. Restate the question and describe the relationship between the IV and DV.
2. Restate the hypothesis and what was found.
3. Explain the outcome of the experiment.