

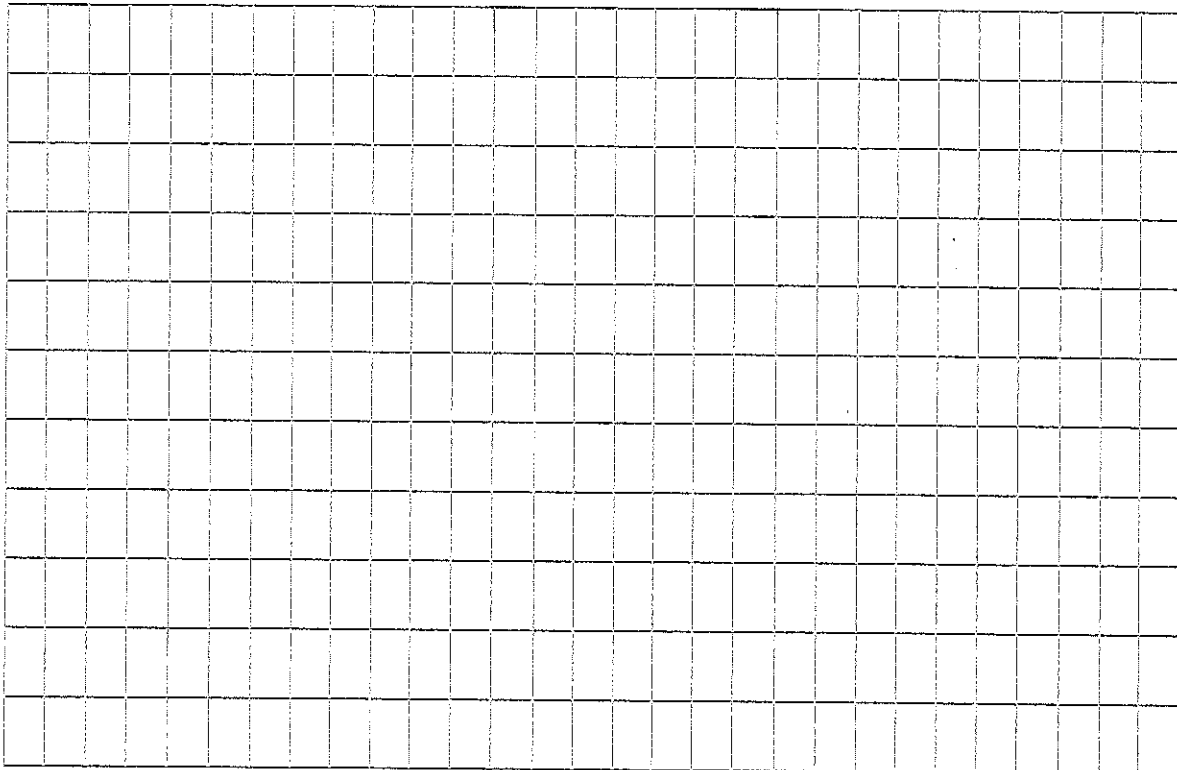
Name: _____

Assignment: Interpreting Line Graphs

1. Fonzie is wearing a heart-rate monitor that also measures body temperature during gym class. Fonzie periodically checks the heart-rate and temperature readings throughout the class and collects the following data.

Heart Rate (beats per minute)	Body Temperature (°F)
80	98.6
90	98.8
100	98.9
120	99.1
150	99.5

- (a) Draw a line graph to represent the data. Be sure to include all the components of a 'good' line graph. The independent axis should go from 40 to 180 beats per minute. The dependent axis should go from 98 to 100°F. (7 marks)



(b) Write a statement that describes the pattern of the graph. For example, as it gets closer to noon, the temperature outside increases. (1 mark)

(c) What is Fonzie's body temperature when the heart rate monitor reads 140 beats per minute? (2 marks)

(d) If Fonzie's normal body temperature is 98 °F, what is her approximate resting heart beat? (3 marks)

(e) What will Fonzie's body temperature be if her heart rate is 160 beats per minute? (3 marks)