Name _____   Date _____

10. Thermostat The table shows the thermostat setting (in units called gas marks) on a British gas oven and the corresponding temperature in degrees Celsius.

Setting (gas mark)	2	3	4	5	6	7	8
Temperature (°C)	150	160	180	190	200	220	230

a. Make a scatter plot of the data where x represents the thermostat setting (in gas marks) and y represents the temperature (in degrees Celsius).
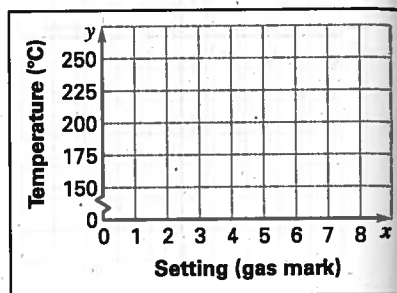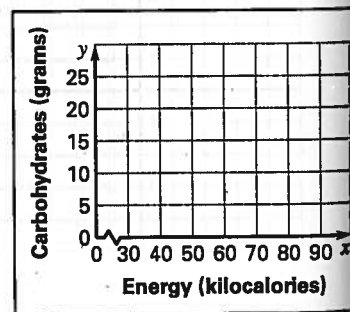
b. *Describe* the correlation of the data.

c. An oven set to gas mark 10 heats to a temperature of 260°C. Does this fit the trend shown by your scatter plot? *Explain* your reasoning.

11. Fruits The table shows the amount of energy (in kilocalories) and the amount of carbohydrates (in grams) in a 100-gram serving of different fruits.

Fruit	Apple	Banana	Blueberries	Kiwi	Pear	Strawberries	Mango
Energy (kcal)	59	92	56	61	59	30	65
Carbohydrates (g)	15.25	23.43	14.13	14.88	15.11	7.02	17

a. Make a scatter plot of the data where x represents the energy (in kilocalories) and y represents the carbohydrates (in grams).

b. *Describe* the correlation of the data.

c. A 100-gram serving of an avocado contains 161 kilocalories of energy and 7.39 grams of carbohydrates. Does an avocado fit the trend shown by your scatter plot? *Explain* your reasoning.