Extension Worksheet 1

Name: _____ Class: _____ Date: _____

1. The hematocrit, or packed cell volume (PCV), is the percentage of the volume of red blood cells to the total volume of blood. Hematocrit values for men vary between 42 % and 52 %. For women, they are between 37 % and 47 %. Three adults were given a blood test. Below are the results.

Name of Patient	David	Victoria	Tom
Hematocrit (%)	36	45	58

Use the information to answer the questions.

a. Which patient has a normal hematocrit percentage?

_____

b. Which patients have an abnormal hematocrit percentage?

_____

_____

c. Which blood components are not analyzed in this test? What are the functions of these elements?

_____

_____

_____

_____

_____

d. Make a bar graph in your notebook that compares the results of each patient with the normal values.

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Extension Worksheet 2

Name: _____ Class: _____ Date: _____

1. A group of students measured the digestion time of certain nutrients and recorded the results.

Time (minutes)	Remaining Nutrients		
	Carbohydrates (grams)	Proteins (grams)	Lipids (grams)
10	30	30	30
20	15	25	27
30	5	20	24

Use the information to respond.

a. Which nutrient is digested the fastest? Which is digested the most slowly?

_____

b. The digestion of each nutrient starts in a different organ: the mouth, stomach and small intestine. Which organ do you think starts the digestion of each nutrient? Why?

_____

_____

_____

c. Using the information in the table, make three line graphs.

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