Homeostasis Worksheet

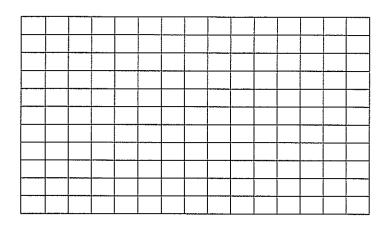
Recognize normal parameters:

The normal range for blood glucose is 70-110 m/dl

The normal range for blood pH is 7.35-7.45

Problem 3: A woman is being tested for diabetes mellitus. Her blood glucose is measured over a period of time.

	Blood
TIME	Glucose
	m/dl
0	100
1 hour later	120
2 hours later	110
3 hours later	90
4 hours later	80
5 hours later	85



TYPE OF FEEDBACK
Does the patient always remain within the normal range
Does the patient have any apparent problems with glucose regulation?

Problem 4: A man with kidney problems is being watched for acid base imbalance.

TIME	рН
7 am	7.45
9 am	7.46
12 pm	7.44
1 pm	7.42
6 pm	7.39
8 pm	7.37
10 pm	7.38
12 am	7.40
3 am	7.42

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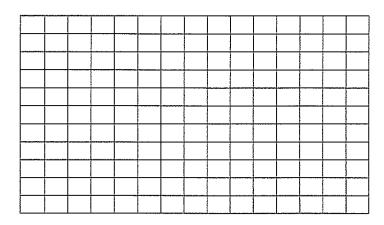
TYPE OF FEEDBACK
Does the patient always remain within the normal range
Does the patient have any apparent problems with acid base balance?

Homeostasis Worksheet

Always graph time on the horizontal (X) axis. Label your axes

Problem 1: A patient's body temperature was recorded over a 24-hour period; the temperature at each hour is listed in the table below. Graph the data in the space provided and state whether it indicates negative or positive feedback.

TIME	TEMP, °F
12 am	98.30
3 am	98.10
6 am	98.40
9 am	98.90
12 pm	98.70
3 pm	98.50
6 pm	98.60
9 pm	98.80



TYPE OF FEEDBACK			
type of Feedback			

Problem 2: A man with heart disease has his blood pressure monitored closely.

TIME	BP mm Hg
7 am	200
8 am	190
9 am	170
10 am	150
11 am	130
12 noon	110
1 pm	70

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