1.	A computer program is said to learn from experience E with	1 point
	respect to some task T and some performance measure P if its	
	performance on T, as measured by P, improves with experience E.	
	Suppose we feed a learning algorithm a lot of historical weather	
	data, and have it learn to predict weather. In this setting, what is T?	
	O None of these.	
	The process of the algorithm examining a large amount of historical weather data.	
	The weather prediction task.	
	The probability of it correctly predicting a future date's weather.	
2.	Suppose you are working on weather prediction, and you would	1 point
	like to predict whether or not it will be raining at 5pm	
	tomorrow. You want to use a learning algorithm for this.	
	Would you treat this as a classification or a regression problem?	
	Classification	
	Regression	
3.	Suppose you are working on stock market prediction, Typically	1 point
	tens of millions of shares of Microsoft stock are traded	
	(i.e., bought/sold) each day. You would like to predict the	
	number of Microsoft shares that will be traded tomorrow.	
	Would you treat this as a classification or a regression problem?	
	Classification	
	Regression	

4.	Some of the problems below are best addressed using a supervised	1 point
	learning algorithm, and the others with an unsupervised	
	learning algorithm. Which of the following would you apply	
	supervised learning to? (Select all that apply.) In each case, assume some appropriate	
	dataset is available for your algorithm to learn from.	
	Given genetic (DNA) data from a person, predict the odds of him/her developing diabetes over the next 10 years.	
	Given a large dataset of medical records from patients suffering from heart disease, try to learn whether there might be different clusters of such patients for which we might tailor separate treatments.	
	Given data on how 1000 medical patients respond to an experimental drug (such as effectiveness of the treatment, side effects, etc.), discover whether there are different categories or "types" of patients in terms of how they respond to the drug, and if so what these categories are.	
	✓ Have a computer examine an audio clip of a piece of music, and classify whether or not there are vocals (i.e., a human voice singing) in that audio clip, or if it is a clip of only musical instruments (and no vocals).	
5.	Which of these is a reasonable definition of machine learning?	1 point
	 Machine learning is the field of study that gives computers the ability to learn without being explicitly programmed. 	
	Machine learning is the science of programming computers.	
	Machine learning is the field of allowing robots to act intelligently.	
	Machine learning learns from labeled data.	