

# Reading Quiz: Chapter 18 (Machine Learning Concepts)

Due Nov 16 at 11:59pm	Points 10	Questions 5	Available after Nov 10 at 12am	Time Limit 30 Minutes
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## Instructions

TIP: At least one task in the quiz asks you to closely investigate one of the figures in the DC eBook. It may be helpful to have your web browser (e.g., "Google Chrome >> right click on image (two-finger click on Mac) >> open image in new tab") can open the image in a separate tab which will allow you to zoom in and see a larger version if needed. You may want to practice doing so before beginning the timed quiz.

## Attempt History

	Attempt	Time	Score
LATEST	<a href="#">Attempt 1</a>	19 minutes	8 out of 10

Score for this quiz: 8 out of 10  
Submitted Nov 16 at 6:10pm  
This attempt took 19 minutes.

Question 1

2 / 2 pts

Machine Learning can be used to identify and describe useful patterns in data (even among many variables).

Correct!

☒ True

☐ False

Question 2

2 / 2 pts

What is the main difference between supervised learning and unsupervised learning?

Correct!

☐ Unsupervised learning requires user input to aid the decision tree; supervised learning does not

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Question 3

2 / 2 pts

Consider the following model syntax:

```
smoker ~ age + sex + weight
```

Which variable is the "output"?

- ☐ sex
- ☒ smoker
- ☐ age
- ☐ weight
- ☐ ALL the variables are outputs (smoker, age, sex, weight)

Correct!

#### Question 4

0 / 2 pts

According to the Decision Tree in Figure 18.2, what is the probability (y) that a 20 year old female with high income (over 4.73) is pregnant?

- ☐ 0.229
- ☐ 0.002
- ☒ 0
- ☐ 0.386
- ☐ 0.075

You Answered

Correct Answer

#### Question 5

2 / 2 pts

According to the Cluster Dendogram in Figure 18.6, which of the following cars is "closest" to the Hornet Sportabout?

- ☒ Maserati Bora
- ☐ Hornet 4 Drive
- ☐ Dodge Challenger

Correct!

Quiz Score: 8 out of 10