Question 1	1 / 1 pts
The bus you take every morning always arrives anywhere from 2 minutes 15 minutes late and it is equally likely that it arrives during any of the minutes. Suppose that you arrive at the bus stop five minutes early. Very probability that the bus is more than five minutes late?	nose
0 10%	
0 10/18	
0 10/15	
<ul><li>10/17</li></ul>	
Draw a graph from 2 minutes early to 15 minutes late. Divide it in minutes. Shade in the appropriate region. How many minutes are graph? How many minutes did you shade?	

Incorrect

## Question 2 0 / 1 pts

The bus you take every morning always arrives anywhere from 2 minutes early to 15 minutes late and it is equally likely that it arrives during any of those minutes. Suppose that you arrive at the bus stop five minutes early. What is the probability that the bus is more than 15 minutes late?

85%

0

15/17

Look at your range. Can you wait more than 15 minutes for the bus?

15%

Draw a graph from 2 minutes early to 15 minutes late. Divide it in to minutes. Shade in the appropriate region. How many minutes are in the graph? How many minutes did you shade?

Question 3	1/1p	ts
Question 3		•

A teacher is monitoring how often students visit the website of the course during the day. She finds the following probability distribution. Find the expected number of visits to the course website.

visits(x)	0	1	2	3
probability	0.45	0.35	0.15	0.05

- 0.75
- 0.80
- 0.25
- 0.85

This is a discrete random variable, so the expected value=mean=Sum  $\{x^*P(X)\}$  for all x's.

## Question 4 1 / 1 pts

Suppose that X is the number of wolves that are seen in Banff, Canada by tourists. The table below is the probability distribution for X. What is the expected value of X, that is, what is the mean of its distribution?

x	0	1	2	3

0.5	
0.7	
1.00	
0 1.7	

	deviation of 6.1 point	y Normal distribution with a mean of s. What is the minimum score you
85.4		
0 81.4		
0.93		
0 1.48		
To find a value of	f X given an area or p	roportion, work backwards.

Question 6 1 / 1 pts

Scores on an exam follow an approximately Normal distribution with a r 76.4 and a standard deviation of 6.1 points. What is the minimum scor would need to be in the top 2%?	
86.93	
0.99	
91.93	
99.99	
● 88.93	
First draw the picture and find the cumulative probability (1-0.02) = Look up 0.98 in the middle of the table to get the z-score. Now, use equation $x = z^*$ sigma +mu.	
Question 7	1 / 1 pts
Scores on an exam follow an approximately Normal distribution with a r 76.4 and a standard deviation of 6.1 points. What percent of students below 80 points?	

Question 7	1 / 1 pts
Scores on an exam follow an approximately Normal distribution wind 76.4 and a standard deviation of 6.1 points. What percent of studbelow 80 points?	
O59	
O 59%	
27.76%	
<ul><li>72.24%</li></ul>	
To find areas to the left of an observation, first find the z-scor look up the area in the middle of the Z table.	re, and then

Question 8	1 / 1 pts
Scores on an exam follow an approximately Normal distribution with a r 74.3 and a standard deviation of 7.4 points. What percent of students below 85 points?	
0 1.45	
0.9394	
0.0606	
0.0735	
0.9265	
To find areas to the left of an observation, first find the z-score, an look up the area in the middle of the Z table.	d then

Question 9	1 / 1 pts
X~N(2.9, 0.78). Find the z-score corresponding to an observation of	1.5.
<ul><li>-1.79</li></ul>	
O -2.22	
O 1.79	
○ 2.22	
If X~N(mu, sigma) then z= (x-mu)/sigma.brnbsp;b subtraction before dividing by sigma.	rRemember to do the

Question 10	1 / 1 pts
Scores on an exam follow an approximately Normal distribution with a n 76.4 and a standard deviation of 6.1 points. What percent of students above 75 points?	
<ul><li>59%</li></ul>	
<b>23%</b>	
O 77%	
O 41%	
To find areas to the right of an observation, first find the z-score, the look up the area to the left of that observation in the middle of the	Z
table, and finally subtract the area from 1 (the total area) to get the to the right.	e area