1) A recent statistics exam yielded the following 25 scores. Construct a grouped frequency distribution with the class limits shown below.

     1) _____

67 89 75 54 64
53 83 69 68 92
87 84 43 80 88
76 83 76 98 55
73 80 41 85 95

Class Limits	Frequency
41-50	
51-60	
61-70	
71-80	
81-90	
91-100	

A)

Class Limits	Frequency
41-50	2
51-60	3
61-70	4
71-80	6
81-90	7
91-100	3

B)

Class Limits	Frequency
41-50	2
51-60	3
61-70	5
71-80	5
81-90	6
91-100	4

2) The cumulative frequency for a class is the sum of the frequencies of the classes less than and equal to the upper boundary of the specific class.

     2) _____

A) False   B) True

3) The following frequency distribution presents the weights in pounds (lb) of a sample of visitors to a health clinic.

Weight (lb)	Frequency
100-109	1
110-119	1
120-129	8
130-139	5
140-149	10
150-159	9
160-169	5
170-179	2

What is the class width?

A) 80   B) 11   C) 10   D) 9

4) For the class 6-17, the class boundaries are _____.

A) 6 and 17   B) 6.5 and 16.5   C) 5.5 and 17.5   D) 5 and 18

5) Find the class boundaries, midpoint, and width of the class 23-33.

A) boundaries: 23-33; midpoint: 28; width: 10
B) boundaries: 23.5-32.5; midpoint: 28; width: 9
C) boundaries: 22.5-33.5; midpoint: 28; width: 11
D) boundaries: 22.5-33.5; midpoint: 28; width: 10

6) What is the midpoint of the class 7-11?

A) 9.5   B) 5   C) 9   D) 4

7) State the reason why the following frequency distribution is incorrectly constructed.

Class	Frequency
48-53	2
54-59	0
60-65	6
66-72	4
73-78	3

A) there is no percent column   B) class width is not uniform
C) a class has been omitted   D) class limits overlap

8) State the reason why the following frequency distribution is incorrectly constructed.

Class	Frequency
48-53	1
53-58	1
58-63	3
63-68	5
68-73	2

A) class limits overlap   B) class width is not uniform

C) a class has been omitted   D) there is no percent column

9) The following frequency distribution presents the frequency of passenger vehicles that
pass through a certain intersection from 8:00 AM to 9:00 AM on a particular day.

Vehicle Type	Frequency
Motorcycle	13
Sedan	62
SUV	62
Truck	45

Construct a relative frequency distribution for the data.

A)

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B)

Vehicle Type	Relative Frequency
Motorcycle	0.071
Sedan	0.341
SUV	0.341
Truck	0.247

10) A survey was taken on how much trust people place in the information they read on the Internet. Construct a categorical frequency distribution for the data. A → trust in all that they read, M → trust in most of what they read, H → trust in about one-half of what they read, S → trust in a small portion of what they read.

S	H	M	M	M	S	H	A	M	M
M	A	H	M	H	M	M	M	M	M
A	M	M	M	S	M	H	H	A	M
S	H	M	M	M	M	M	A	H	A

A)

Class	Frequency
A	6
M	22
H	4
S	8

B)

Class	Freq	Percent
A	6	15%
M	22	55%
H	8	20%
S	4	10%
	40	100%

1) A
2) B
3) C
4) C
5) C
6) C
7) B
8) A
9) B
10) B