Name:
Date:
Period:

Which Class is More Consistent?

Below are the semester grades for 2 different classes. Compute the Mean Absolute Deviation for each then answer the questions.

Round your mean to the nearest whole number. Round your MAD to the nearest tenth if needed.

Class A

88	87	79	76	90
87	91	80	92	85
94	83	74	83	77
71	82	81		

Score	Mean	Score - Mean	IScore - MeanI
71			
74			
76			
77			
79			
80			
81			
82			
83			
83			
85			
87			
87			
88			
90			
91			
92			
94			
		SUM	
		MAD	

Class B

87	90	70	76	86
88	81	75	86	81
84	77	90	93	90
95	82	79	79	85
90	85	84	88	

Score	Mean	Score - Mean	IScore - MeanI
70			
75			
76			
77			
79			
79			
81			
81			
82			
84			
84			
85			
85			
86			
86			
87			
88			
88			
90			
90			
90			
90			
93			
95			
		SUM	
		MAD	

Short Answer Questions.

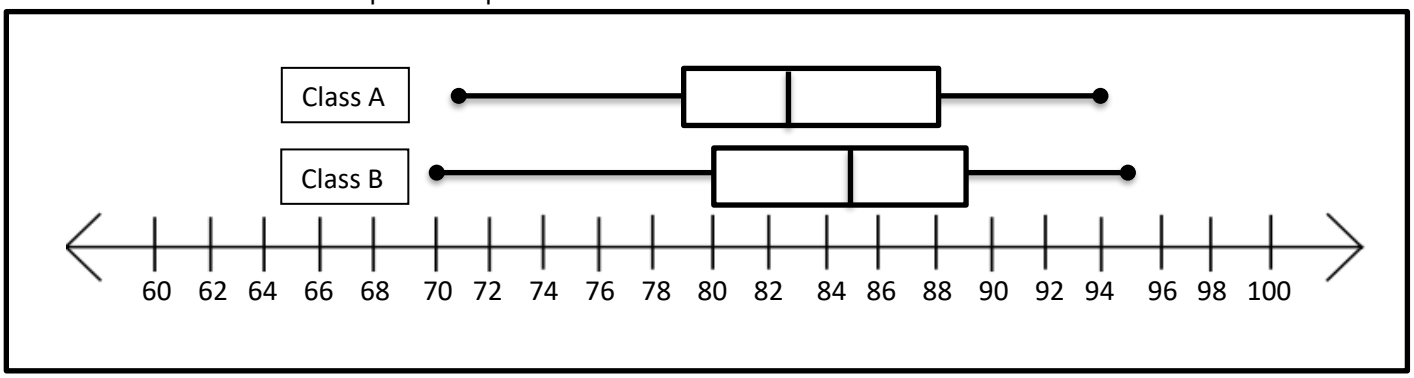
Answer each question below. Be sure to explain each answer for full credit.

1. Which class had a higher mean score? By how much?

2. Which class had a higher range of test scores? By how much?

3. Which class had less variability? How do you know?

Use the box & whisker plots for questions 4 – 7.



4. Which class was more likely to have someone score higher than 90%? How do you know by looking at the graph?

5. What percent of students scored below an 80% in class B? Was that percentage higher or lower in Class A? How do you know by looking at the graph?

6. What is the range of each class? What is the interquartile range of each class?

7. Which class's scores were more predictable? How do you know?