Statistics	2.4 Practice #1	Name:	
	of a sea turtle is 84 years v ymmetrical distribution.	with a standard deviation of 5 year	rs. The life span of
A) Would you us	e the Empirical Rule or Ch	nebychev's Theorem for this situat	ion?
B) Create the SD	number line, going out to	3 SD in each direction.	
C) What percent	of sea turtles will live from	179 to 84 years?	
D) What percent	of sea turtles will live long	er than 89 years?	
E) If a research g live from 74 to 99	<u> </u>	area, about how many of them wo	uld we expect to
2. Test scores on deviation of 8.	a recent stats exam were s	kewed left with a mean of 76 and	a standard
A) Would you us	e the Empirical Rule or Che	ebychev's Theorem for this situati	ion?
B) Create the SD	number line, going out to 3	3 SD in each direction.	
C) What percent of	of the test scores are from 6	50 to 92?	
D) What percent of	of the test scores are from 5	52 to 100?	

E) Can you estimate the percent of scores from 76 to 84? Why or why not?

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2.4 Practice #2

- 1. Test scores on a recent stats exam were skewed left with a mean of 82 and a standard deviation of 6.
- A) Would you use the Empirical Rule or Chebychev's Theorem for this situation?
- B) Create the SD number line, going out to 3 SD in each direction.
- C) What percent of the test scores are from 64 to 100?
- D) What percent of the test scores are from 70 to 94?
- E) Can you estimate the percent of scores above 88? Why or why not?
- 2. The mean life of a pygmy bat is 8.5 years with a standard deviation of 1.2 years. The life span of these bats is found to have a symmetrical distribution.
- A) Would you use the Empirical Rule or Chebychev's Theorem for this situation?
- B) Create the SD number line, going out to 3 SD in each direction.
- C) What percent of pygmy bats will live less than 4.9 years?
- D) What percent of pygmy bats will live from 7.3 to 12.1 years?
- E) About 95% of pygmy bats will live about how long?
- F) If there are 80 bats in your attic, and you can't afford to move and don't want to go to prison for burning your house down, about how many of them could you expect to live more than 9.7 years?