3	Α	*1.	Measures	of d	central	. te	endency				
Select <b>the measure of central tendency</b> that would be most appropriate for describing each of the following hypothetical sets of data:											
a. Religious preferences of delegates to the United Nations								<b>□</b> Mean	■ Median	<b>□</b> Mode	
b. Heart rates for a group of women before they start their first aerobics class								first	<b>□</b> Mean	■ Median	<b>□</b> Mode
c. Types of phobias exhibited by patients attending a phobia clinic								a clinic	<b>□</b> Mean	■ Median	<b>□</b> Mode
d. Amounts of time participants spend solving a classic cognitive problem, with some of the participants unable to solve it							<b>□</b> Mean	■ Median	<b>□</b> Mode		
e.	Heig	ht in ir	nches for a grou	ıp of b	oys in the	e first	t grade		<b>□</b> Mean	<b>□</b> Median	<b>□</b> Mode
3	Α	2.	Distribut:	ion o	descrip	tiv	res				
Describ			<b>situation</b> in whic		would expe	ect to	o obtain eacl	n of the fo	llowing:		
a)	A neg	gatively	skewed distribu	ition							
b)	A pos	itively	skewed distribu	tion							
c)	A bin	nodal	distribution								
,											
3	Α	*3.	Distribut	tion	descri	pti	.ves				
A midterm exam was given in a large introductory psychology class. The <b>median</b> score was 85, the <b>mean</b> was 81, and											
the <b>mode</b> was 87.											
What kind of distribution would you expect from these exam scores?											

A veterinarian is interested in the life span of golden retrievers. She recorded the age at death (in years) of the										
retrievers treated in her clinic. The ages were <b>12</b> , <b>9</b> , <b>11</b> , <b>10</b> , <b>8</b> , <b>14</b> , <b>12</b> , <b>1</b> , <b>9</b> , <b>12</b> .										
a) Calculate the mean, median, and mode of life span:										
Mean	Median	Mode								
	ne veterinarian determined that the dog	that had died at 1 year was killed by a								
Mean	dian, and mode without that dog's data.  Median	Mode								
c) Which measure of central tend	ency in part b <b>changed the most</b> , compa	ared to the values originally calculated								
in part a? Explain.	☐ Mean ☐ Median ☐ Mod									

3

Α

4.

Measures of central tendency

3	Α	5. Measures of Variability							
Which of the three most popular <b>measures of variability</b> would you choose in each of the following situations?									
a.	The direc	SIQ range	<b>□</b> SD						
b.	<ul> <li>b. You are planning to perform advanced statistical procedures (e.g., draw inferences about population parameters).</li> </ul>								
C.	SIQ range	□ SD							
d.	SIQ range	□ SD							
e.	The h	The highest score in the distribution is "more than 10." ☐ Range ☐ S							
4	Α	*1. Z-scores							
If you <b>convert each score in a set of scores to a z score</b> , which of the following will be <b>true</b> about the resulting set of z scores?									
a.	ПΤ	☐ TRUE							
b.	□т	☐ TRUE							
c.	□т	☐ TRUE							
d.	d. All of the above.								
e.	e. None of the above.								
4	Α	2. Z-scores							
The distribution of body weights for adults is somewhat <b>positively skewed</b> — there is much more room for people to be above average than below.									
If you take <b>the mean weights for random groups of 10 adults</b> each and form a new distribution, how will this new distribution <b>compare</b> to the distribution of individuals?									
a.	a. The new distribution will be <b>more symmetrical</b> than the distribution of individuals.								
b.	b. The new distribution will more closely resemble the normal distribution.								
C.	c. The new distribution will be <b>narrower</b> (i.e., have a smaller standard deviation) than the distribution of individuals.								
d.	d. All of the above.								
e.	e. None of the above.								