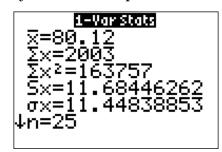
Elementary Statistics	Name:
Study Guide 5	Class:
Due Date:	Score:
Your solutions must be co	ensistent with class notes & resources.
Be Neat, Organi	$\mathbf{zed}$ , and No Work $\Leftrightarrow$ No Points
1. Consider the sample below: 2 (a) (1 point) Find the sample	0 5 5 4 10 1 5 size.
(b) (1 point) Find the sample	(a)
(c) (1 point) Find $\sum x$ .	(b)
(d) (1 point) Find $\sum x^2$ .	(c)
(e) (2 points) Find $\bar{x}$ by usin decimal place.	(d) g the formula only. Round your answer to one
(f) (2 points) Find $s^2$ by using reduced fraction.	(e)ng the formula only. Simplify your answer to a
(g) (2 points) Find $s$ by using decimal place.	(f)g the formula only. Round your answer to one
	(g)

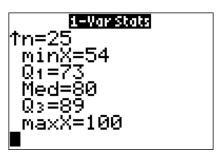
2. Co	nsider the s	ample	e bel	ow:										
		<b>2</b> 0	10	<b>15</b>	8 1	4 15	18	5	<b>12</b>	<b>2</b> 0	10	16		
(a	) (2 points)	Find	1 <u>\</u>	<i>x</i> .										
(b	$)~(2~{ m points})$	Find	ı ∑	$x^2$ .								(a)		
(c	$(2 \; { m points}) \ { m decimal} \; { m p}$		l $ar{x}$ b	oy us	ing t	the fo	rmul	a or	nly.	Rou	nd y	` ,		to one
(d	) (2 points) reduced fi			by u	sing	the f	ormu	la o	only.	Sim	nplify	` ′		er to a
(e	) (2 points) decimal p		$l\; s\; b$	y us	ing t	the fo	rmul	a or	nly.	Rou	nd y	` ,		to one
(f	$)(2{ m points})$	Esti	mate	s by	usin	g the	rang	e ru	ıle–o	f–thu	ımb.	(e)		
		_										(f)		
•	points) Wh			earn	abou	ıt san	aple (	data	eler	nents	s who	en the	samp	le stan-

3. \_\_\_\_

4.		$\sum x = 1570$ , $\sum x^2 = 125696$ , minimum = 60, and ma Find the sample range.	ximum = 100
	(b) (1 point)	Find the sample midrange.	(a)
	(c) (2 points)	Find $\bar{x}$ . Round your answer to a whole number.	(b)
	(d) (2 points)	Find $s^2$ in reduced fraction	(c)
	(e) (2 points)	Find $s$ . Round your answer to a whole number.	(d)
	(f) (2 points)	Estimate $s$ by using the range rule–of–thumb.	(e)
			(f)
5.	standard devia	ath exam has a bell–shaped distribution with the tion of 7. Using the empirical rule, Find its $68\%$ range.	• •
	(b) (2 points)	Find its usual range.	(a)
			(b)

6. The following calculator displays present the basic computational statistics on a randomly selected sample.





(a) (2 points) Find the range and the midrange.

(a) \_\_\_\_\_

(b) (2 points) Round the sample mean and standard deviation to a whole number, then find the usual range of the sample.

(b) \_\_\_\_\_

(c) (2 points) Estimate the value of the sample standard deviation.

(c) \_\_\_\_\_

7. Given: n = 10,  $\sum x = 215$ , and  $\sum x^2 = 4750$ 

(a) (2 points) Find  $\bar{x}$  . Round your answer to one decimal place.

(a) \_\_\_\_\_

(b) (3 points) Find  $s^2$ . Simply your answer to a reduced fraction.

(b) \_\_\_\_\_

(c) (1 point) Find s . Round your answer to one decimal place.

(c) \_\_\_\_\_

Invest in your education with focus and dedication to learning.