<b>77</b> .	8.62	closing stock prices of 35 U.S. semiconductor manufacturers are given as follows. 25; 30.25; 27.625; 46.75; 32.875; 18.25; 5; 0.125; 2.9375; 6.875; 28.25; 24.25; 21; 1.5; 30.25; 71; 43.5; 49.25; 525; 31; 16.5; 9.5; 18.5; 18; 9; 10.5; 16.625; 1.25; 18; 12.87; 7; 12.875; 2.875; 60.25; 29.25
		In words, <i>X</i> =
	b.	i. $\overline{x} = \underline{\hspace{1cm}}$
		ii. $s_X = \underline{\hspace{1cm}}$
		iii. n=
	c.	Construct a histogram of the distribution of the averages. Start at $x = -0.0005$ . Use bar widths of ten.
	d.	In words, describe the distribution of stock prices.
	e.	Randomly average five stock prices together. (Use a random number generator.) Continue averaging five
		pieces together until you have ten averages. List those ten averages.
	f.	Use the ten averages from part e to calculate the following.
		i.
		ii. s <sub>X</sub> =
	g.	Construct a histogram of the distribution of the averages. Start at $x = -0.0005$ . Use bar widths of ten.
	h.	Does this histogram look like the graph in part c?
	i.	In one or two complete sentences, explain why the graphs either look the same or look different?
	j.	Based upon the theory of the <b>central limit theorem</b> , $\overline{X} \sim \underline{\hspace{1cm}}(\underline{\hspace{1cm}})$
70		als wait for their delivery.
<b>78</b> .	<i>X</i> ~ a. b. c.	als wait for their delivery. $U(0,4)$ $U(10,2)$ $E\chi p(2)$ $N(2,1)$
	<ul><li>X~</li><li>a.</li><li>b.</li><li>c.</li><li>d.</li></ul>	U(0,4) U(10,2) Exp(2) N(2,1)
	X ~ a. b. c. d.	(
	<ul><li>X~</li><li>a.</li><li>b.</li><li>c.</li><li>d.</li></ul> The <ul><li>a.</li></ul>	$U(0,4)$ $U(10,2)$ $E\chi p(2)$ $N(2,1)$ average wait time is:
	<ul><li>X~</li><li>a.</li><li>b.</li><li>d.</li></ul> The <ul><li>a.</li><li>b.</li></ul>	$U(0,4)$ $U(10,2)$ $E\chi p(2)$ $N(2,1)$ average wait time is: one hour.
	<ul><li>X ~</li><li>a.</li><li>b.</li><li>c.</li><li>d.</li></ul> Thea.b.c.	$U(0,4)$ $U(10,2)$ $E\chi p(2)$ $N(2,1)$ average wait time is: one hour. two hours.
79.	<ul><li>X~</li><li>a.</li><li>b.</li><li>c.</li><li>d.</li></ul> The <ul><li>a.</li><li>b.</li><li>c.</li><li>d.</li></ul> Sup	$U(0,4)$ $U(10,2)$ $E\chi p(2)$ $N(2,1)$ average wait time is: one hour. two hours. two and a half hours. four hours.  pose that it is now past noon on a delivery day. The probability that a person must wait at least one and a half
79.	<ul><li>X~</li><li>a.</li><li>b.</li><li>c.</li><li>d.</li></ul> The <ul><li>a.</li><li>b.</li><li>c.</li><li>d.</li></ul> Sup <ul><li>mo</li></ul>	U(0,4) U(10,2) Exp(2) N(2,1)  average wait time is: one hour. two hours. two and a half hours. four hours.
79.	<ul> <li>X~</li> <li>a.</li> <li>b.</li> <li>c.</li> <li>d.</li> </ul> Sup <ul> <li>mo</li> <li>a.</li> </ul>	$U(0,4)$ $U(10,2)$ $E\chi p(2)$ $N(2,1)$ average wait time is: one hour. two hours. two and a half hours. four hours.  pose that it is now past noon on a delivery day. The probability that a person must wait at least one and a half
79.	<ul> <li>X~</li> <li>a.</li> <li>b.</li> <li>c.</li> <li>d.</li> </ul> The <ul> <li>a.</li> <li>b.</li> <li>c.</li> <li>d.</li> </ul> Sup <ul> <li>mo</li> <li>a.</li> <li>b.</li> </ul>	$U(0,4)$ $U(10,2)$ $E\chi p(2)$ $N(2,1)$ average wait time is: one hour. two hours. two and a half hours. four hours.  pose that it is now past noon on a delivery day. The probability that a person must wait at least one and a half
79.	<ul> <li>X~</li> <li>a.</li> <li>b.</li> <li>c.</li> <li>d.</li> </ul> Sup mo <ul> <li>a.</li> <li>b.</li> <li>c.</li> <li>c.</li> </ul>	$U(0,4)$ $U(10,2)$ $E\chi p(2)$ $N(2,1)$ average wait time is: one hour. two hours. two and a half hours. four hours.  pose that it is now past noon on a delivery day. The probability that a person must wait at least one and a half
79.	<ul> <li>X~</li> <li>a.</li> <li>b.</li> <li>c.</li> <li>d.</li> </ul> The <ul> <li>a.</li> <li>b.</li> <li>c.</li> <li>d.</li> </ul> Sup <ul> <li>mo</li> <li>a.</li> <li>b.</li> </ul>	$U(0,4)$ $U(10,2)$ $E\chi p(2)$ $N(2,1)$ average wait time is: one hour. two hours. two and a half hours. four hours.  pose that it is now past noon on a delivery day. The probability that a person must wait at least one and a half
<b>79</b> . <b>80</b> .	X~ a. b. c. d. The a. b. c. d. Sup mo a. b. c. d.	$U(0,4)$ $U(10,2)$ $E\chi p(2)$ $N(2,1)$ average wait time is: one hour. two hours. two and a half hours. four hours.  pose that it is now past noon on a delivery day. The probability that a person must wait at least one and a half

- - a. 315.0
  - b. 40.3
  - c. 38.5
  - d. 65.2
- 82. Would you be surprised, based upon numerical calculations, if the sample average wait time (in minutes) for 100 riders was less than 30 minutes?
  - a. yes
  - b. no
  - c. There is not enough information.