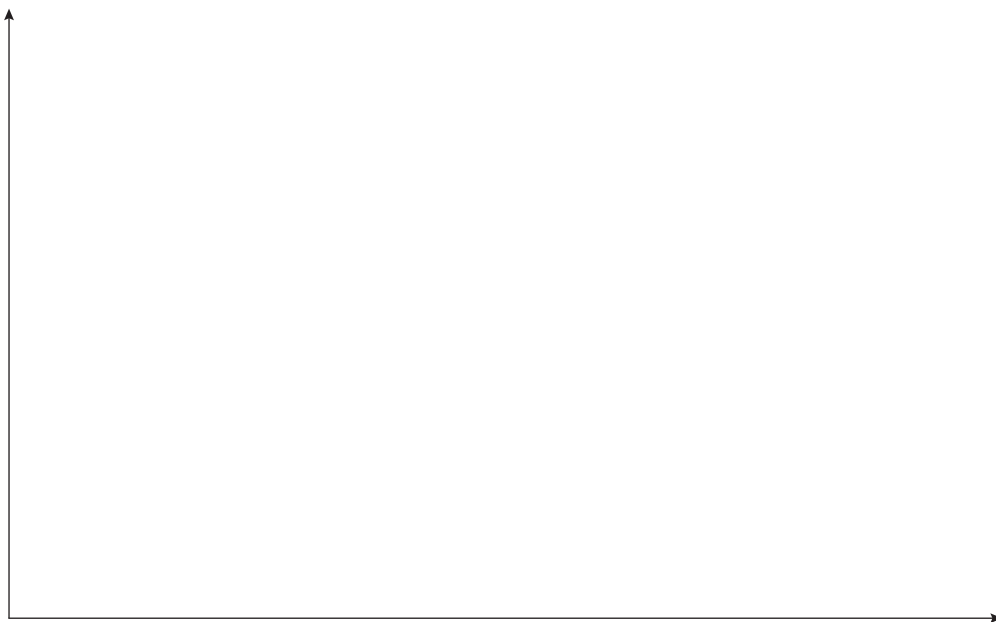


Unit 6: Statistics Lesson 6.2**Coach's Corner – II**

1. The amount customers spent at a store on a particular day is listed in the table.

Purchase Amounts				
\$2.72	\$13.74	\$17.96	\$26.31	\$37.78
\$6.59	\$14.06	\$18.00	\$28.82	\$38.73
\$7.35	\$14.30	\$18.56	\$28.96	\$40.61
\$8.64	\$14.72	\$19.65	\$30.15	\$43.48
\$9.59	\$15.13	\$19.96	\$32.17	\$45.13
\$9.64	\$15.42	\$20.30	\$32.48	\$51.44
\$10.63	\$15.86	\$20.32	\$33.23	\$60.60
\$11.74	\$16.26	\$20.40	\$34.10	\$63.68
\$13.38	\$17.67	\$24.63	\$34.58	\$64.03
\$13.43	\$17.76	\$25.33	\$36.98	\$69.20

- a. Draw a histogram to represent this data.

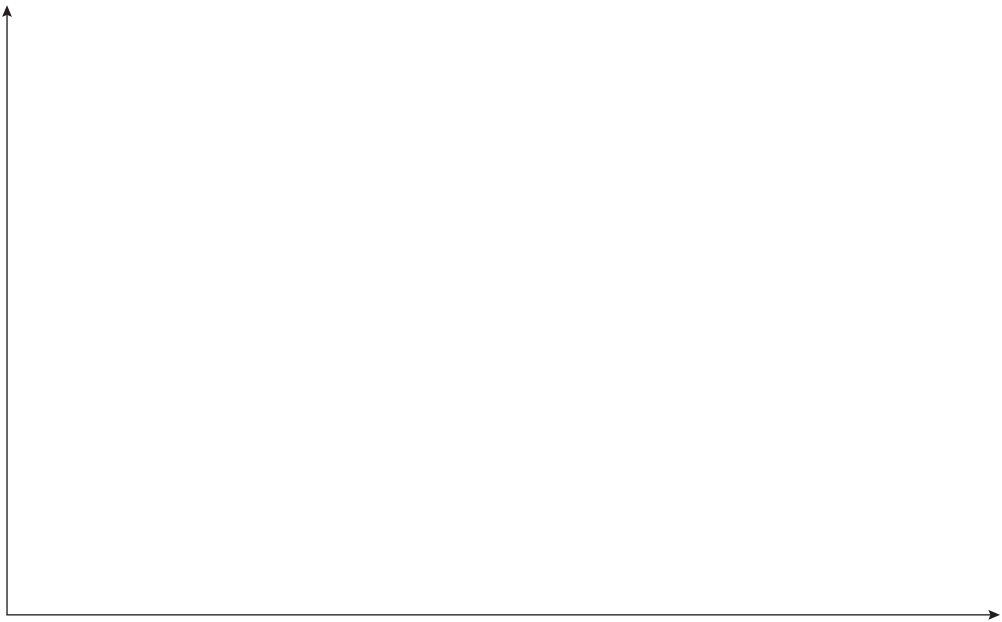


b. Determine the mean, median, and standard deviation of the data.

c. Do the purchase sizes appear to be normally distributed? Explain.

2. The data in the following table is normally distributed. Sketch a normal curve that represents the data.

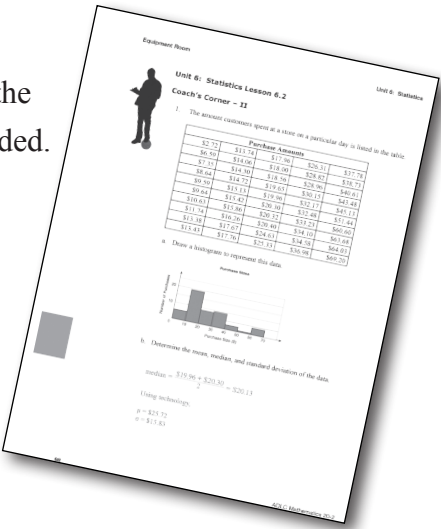
1328	1107	1255	1384	1463	1320
1140	1283	1215	1276	1233	1236
1274	1268	1343	1330	1253	1356
1245	1431	1198	1165	1251	1130
1264	1127	1276	1285	1419	1280
1208	1221	1270	1236	1093	1276
1189	1264	1238	1264	1128	1227
1268	1259	1212	1328	1174	1172
1377	1200	1282	1261	1283	1196
1299	1248	1197	1288	1281	1295



Please go to the *Equipment Room* to check your solutions before returning to *Lesson 6.2*.

After you have assessed your work, reflect on your understanding of the concepts addressed in the *Coach's Corner* exercises in the table provided.

Question Number	Got it!	Almost there...	Need to retry or ask for help.
1			
2			



Unit 6: Statistics Lesson 6.2**Coach's Corner – III**

1. A large, normally distributed data set has a mean of 24 and a standard deviation of 3.5. If 50 data values are selected at random from the data set, predict how many will be
 - a. over 24
 - b. under 17
 - c. between 13.5 and 27.5

2. A set of data is normally distributed with a mean of 4.00 and a standard deviation of 0.17.

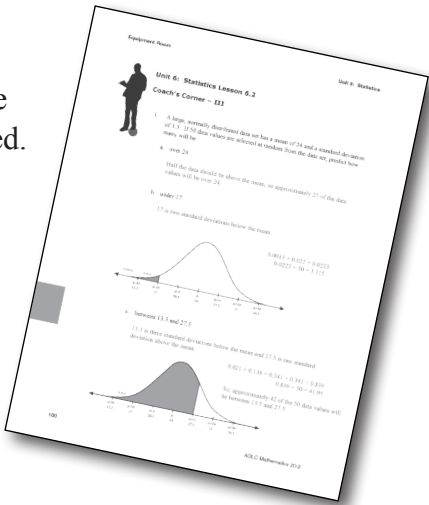
a. Between which two data values will the middle 68% of the data lie?

b. Above what value will 16% of the data lie?

Please go to the *Equipment Room* to check your solutions before proceeding to *Game On!*, on the next page of this *Workbook*.

After you have assessed your work, reflect on your understanding of the concepts addressed in the *Coach's Corner* exercises in the table provided.

Question Number	Got it!	Almost there...	Need to retry or ask for help.
1			
2			



Note: Before you complete *Game On!*, you may review your skills and get more practice by completing the following problems in *Principles of Mathematics 11*.

- Page 279, #1, 3, 4, 6, 8, 10, 11, 13b, and 14

Check your work in *Strengthening and Conditioning*.

