

Exercise 2015-8EJ-00004(1)

(1) Determine the median and mode of each of the following sets of data:

(a) 23 ; 24 ; 25 ; 26 ; 26 ; 26 ; 27 ; 28

(b) 102 ; 99 ; 112 ; 133 ; 91 ; 84 ; 113 ; 112 ; 81 ; 101

(c) 5,4 ; 3,4 ; 2,8 ; 3,9 ; 3,3 ; 6,4 ; 7,2

(2) (a) Present the following as a stem-and-leaf diagram:

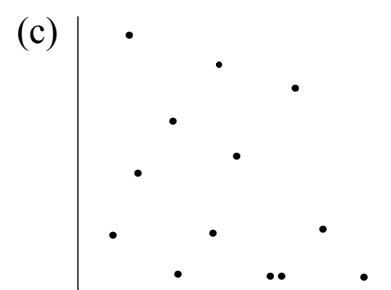
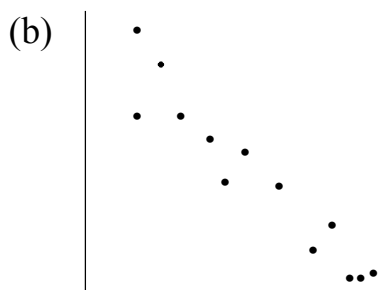
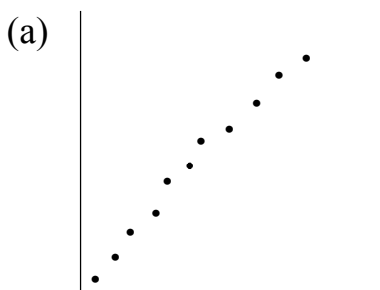
The number of CD's sold for the month of May at the different agencies							
1 254	1 546	1 346	1 438	1 754	1 765	1 129	1 370
1 321	1 342	1 745	1 745	1 843	1 538	1 691	1 624
1 629	1 008	1 243	1 566	1 023	1 287	1 569	1 712
1 198	1 561						

(b) Determine the median and mode of the data in (a).

(c) Determine the average number of CD's sold per month by the agencies.

(d) How many more CD's should have been sold by the agencies in total for the month of May if the average number of CD's sold must be exactly 1500.

(3) Consider the following scatter graphs and describe the distribution in full:

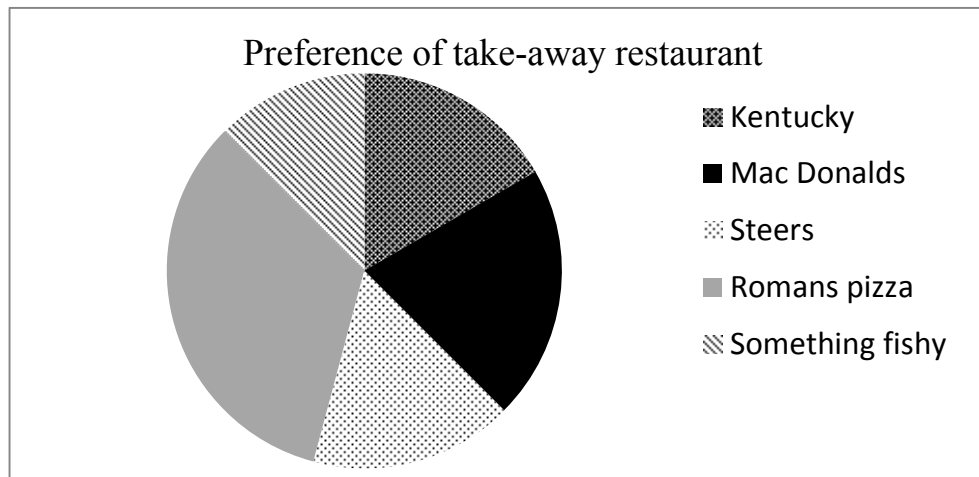


(4) Calculate the mean of:

(a) 333 ; 234 ; 112 ; 256 ; 111 ; 234 ; 432 ; 482 ; 582 ; 108 ; 285

(b) 15,4 ; 90,1 ; 30,6 ; 99,3 ; 34,7 ; 21,8 ; 45,7 ; 39,8 ; 79,5 ; 49,0

(5) Consider the pie chart and answer the questions:



- (a) Describe the purpose of the pie chart.
- (b) Which restaurant is the most popular?
- (c) If 120 respondents participated in the survey, calculate the number of respondents who indicated Kentucky as the preferred restaurant?
- (d) Which percentage of the respondents have indicated Steers as preferred restaurant?

