

Homework Solutions
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Exercise 26

- (a) Cholesterol (or Fat or Saturated Fat or Calories).
- (b) I'll do each one.

Fat:

Stem	Leaf
0	9 8 5
1	7 5 3
2	5
3	8
4	4 2
5	3
6	9
7	
8	
9	
10	
11	4

Note: 1—2 means 1.2.

The distribution is unimodal and skewed right.

Saturated Fat: (Use split stems.)

Stem	Leaf
0	4 2 3 1 2 0 1
0	6
1	1 4 2 1
1	
2	
2	7

Note: 1—2 means 1.2

The distribution is unimodal (probably) and skewed right (probably). The value 2.7 might be an outlier.

Cholesterol:

Stem	Leaf
2	2
3	5
4	2 3 0 5
5	7 7
6	0 1
7	2
8	
9	3
10	
11	
12	
13	
14	
15	
16	6

Note: 1—2 means 12.

The distribution is symmetric except for the probable outlier 166.

Calories:

Stem	Leaf
7	5
8	2 4 3
9	
10	9
11	7 9
12	7 6
13	2
14	
15	5 7
16	
17	
18	
19	6

Note: 1—2 means 12.

The distribution is almost uniform, but it might be somewhat skewed to the right.

- (c) Based on fat, the best is seafood is lobster. Based on saturated fat, the best is orange roughy. Based on cholesterol, the best is orange roughy. Based on calories, the best is orange roughy. I think there is a pattern here.
- (d) Already done in part (b).
- (e) Already done in part (c).