Sixth Grade: Activity 30 Practice
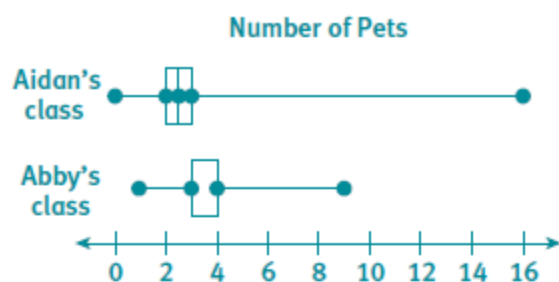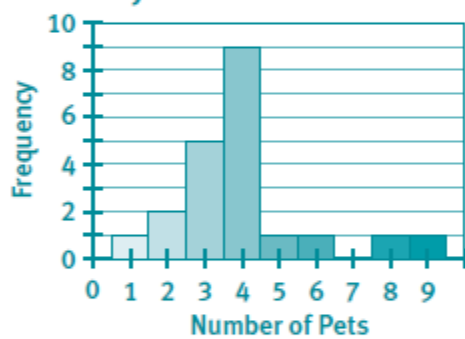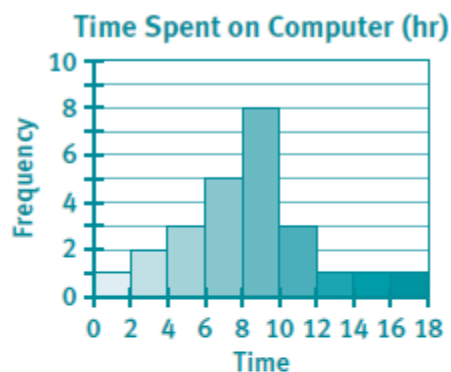(pg. 405-406)

1.

Number of Pets

2. The distribution of number of pets in Aiden's class has a range of 16 compared to Abby's class which has a range of 8. Both classes have the middle 50% concentrated in one unit. The median of Aiden's class is lower than that of Abby's class.

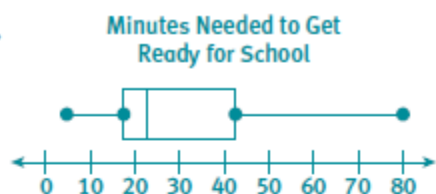**3.** **Abby's Class – Number of Pets**

4.

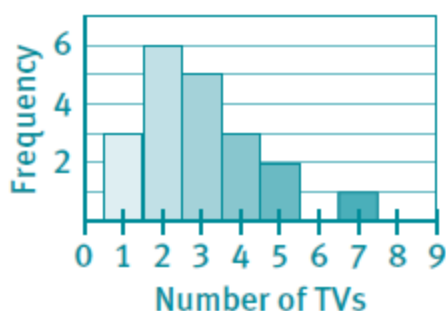| Class Interval	Frequency
0 to <2	1
2 to <4	2
4 to <6	3
6 to <8	5
8 to <10	8
10 to <12	3
12 to <14	1
14 to <16	1
16 to <18	1

Time Spent on Computer (hr)

5. Answers will vary. The distribution is nearly symmetrical with a strong concentration of values in the center so the mean and median should be close to the same value. The range of the distribution according to the histogram is about 18.

6. a. The number of people who weigh a specific amount.
b. The number of pounds in each interval
c. 2
d.

Class Interval	Frequency
50 to <55	2
55 to <60	5
60 to <65	6
65 to <70	7
70 to <75	7
75 to <80	8
80 to <85	9

e. Answers may vary. The minimum weight is 50 and the maximum weight is 85. The class interval is 5. The graph is skewed to the right with more people weighing between 80 and 85.

7. a.

0 10 20 30 40 50 60 70 80

b. The distribution is skewed to the right and appears to be centered around 23. Although the range is 75, 75% of the distribution is less than 45.

c. The mean should be greater than the median because the distribution is skewed to the right.

d. 25%

e. The same since each is 25%

8–9. Answers will vary and depend on the data collected in class.

10. a. **Number of TVs in the Home**

b. Mean = 2.85

c. C

d. The distribution appears to be skewed to the right. The long tail is on the right. The outlier of 7 TVs is on the right.

11. Answers may vary. Check students' work