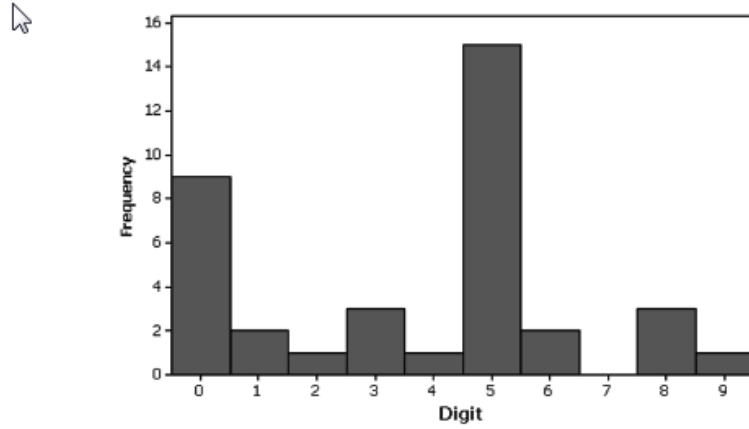
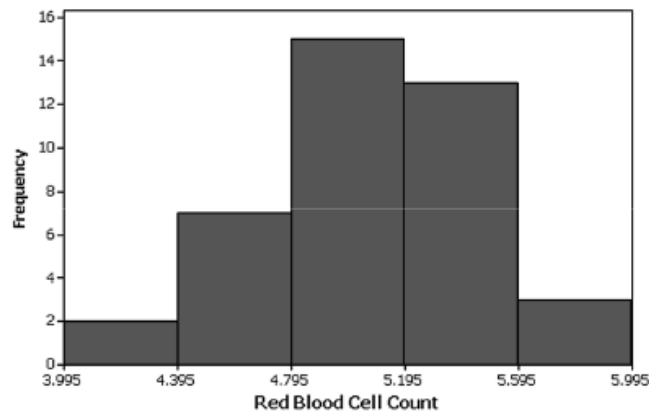


Section 2-3

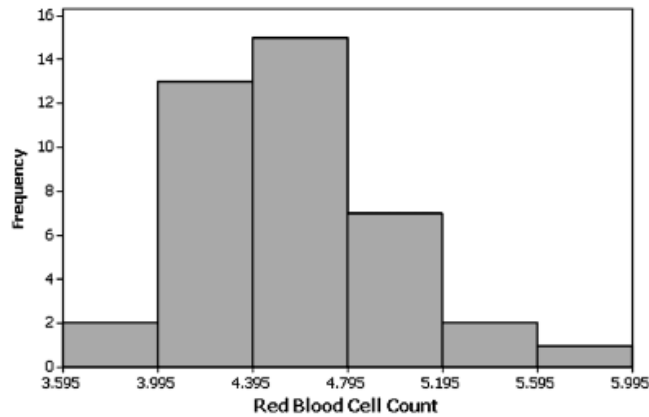
9. The digits 0 and 5 seem to occur much more than the other digits, so it appears that the heights were reported and not actually measured. This suggests that the results might not be very accurate.



10. The digits 0 and 5 seem to occur much more often than the other digits, so it appears that the heights were reported and not measured. This suggests that the results might not be very accurate.
11. The histogram does appear to depict a normal distribution. The frequencies increase to a maximum and then tend to decrease, and the histogram is symmetric with the left half being roughly a mirror image of the right half.
15. The histogram appears to roughly approximate a normal distribution. The frequencies increase to a maximum and then tend to decrease, and the histogram is symmetric with the left half being roughly a mirror image of the right half.



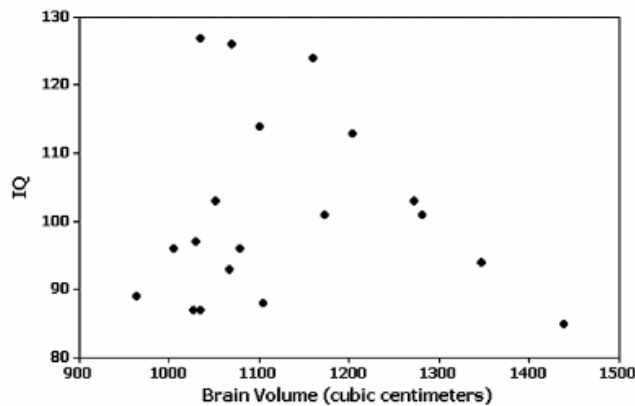
16. The histogram appears to roughly approximate a normal distribution. The frequencies increase to a maximum and then tend to decrease, and the histogram is symmetric with the left half being roughly a mirror image of the right half.



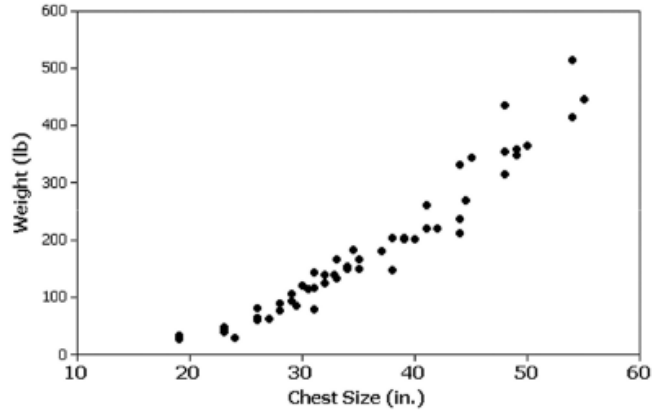
20. a. 107 inches to 109 inches; 8 feet 11 inches to 9 feet 1 inch.
 b. The heights of the bars represent numbers of people, not heights. Because there are many more people between 43 inches tall and 55 inches tall, they have the tallest bars in the histogram, but they have the lowest actual heights. They have the tallest bars because there are more of them.

Section 2-4

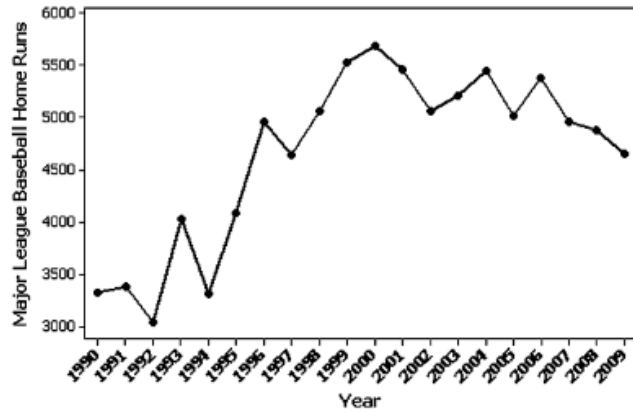
6. The configuration of the points does not support the hypothesis that people with larger brains have larger IQ scores.



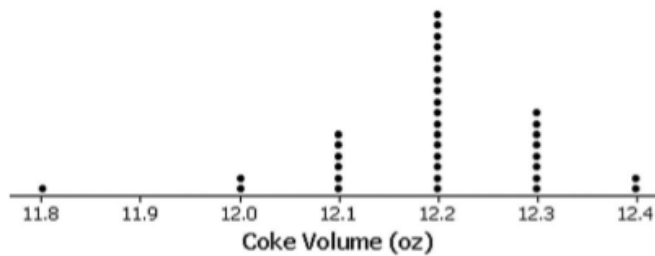
7. Yes. There is a very distinct pattern showing that bears with larger chest sizes tend to weigh more.



10. The numbers of home runs rose from 1990 to 2000, but after 2000 there was a very gradual decline.



11. Yes, because the configuration of the points is roughly a bell shape, the volumes appear to be from a normally distributed population. The volume of 11.8 oz. appears to be an outlier.

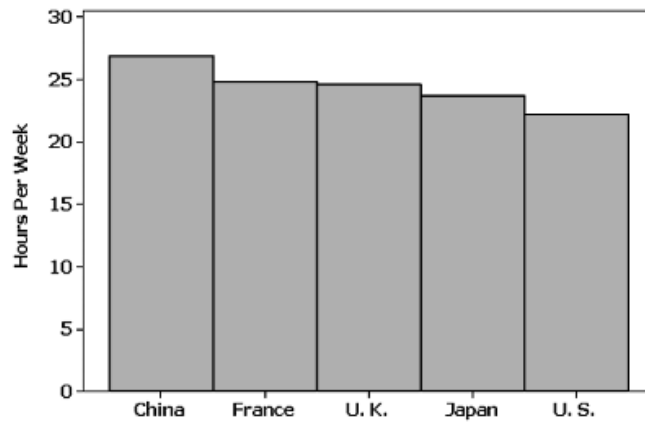


14. There are no outliers. The distribution is not dramatically far from being a normal distribution with a bell shape, so there is not strong evidence against a normal distribution.

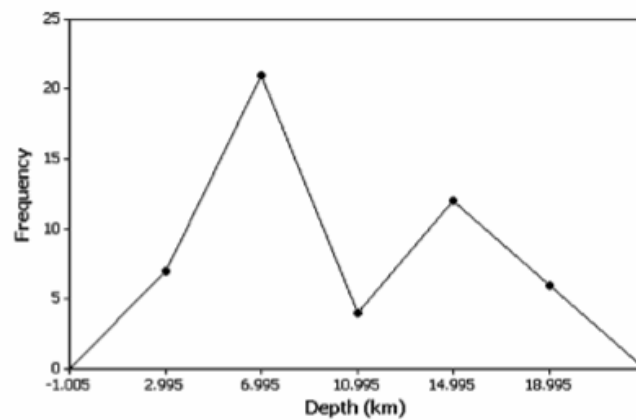
```

12 | 6 8
13 | 1 2 3 4 5 5 6 6 6 7 7 8 9 4
14 | 0 0 0 3 3 5
    
```

16. To remain competitive in the world, the United States should require more weekly instruction time.



20. No, the frequency polygon does not appear to approximate a normal distribution. The frequencies do not increase to a maximum and then decrease, and the graph is not symmetric with the left half being a mirror image of the right half.



22. The fare doubled from \$1 to \$2, but when the \$2 bill is shown with twice the width and twice the height of the \$1 bill, the \$2 bill has an area that is four times that of the \$1 bill, so the illustration greatly exaggerates the increase in fare.