

Worksheet 3

Question#1

Listed are 29 ages for Academy Award winning best actors in order from smallest to largest.

18; 21; 22; 25; 26; 27; 29; 30; 31; 33; 36; 37; 41; 42; 47; 52; 55; 57; 58; 62; 64; 67; 69; 71; 72; 73; 74; 76; 77

- a) Find the 40th percentile.
- b) Find the 78th percentile.

Question#2

On a 20 question math test, the 70th percentile for number of correct answers was 16. Interpret the 70th percentile in the context of this situation.

Question#3

The following data are the heights of 40 students in a statistics class. 59; 60; 61; 62; 62; 63; 63; 64; 64; 64; 65; 65; 65; 65; 65; 65; 65; 65; 65; 66; 66; 67; 67; 68; 68; 69; 70; 70; 70; 70; 70; 71; 71; 72; 72; 73; 74; 74; 75; 77

Construct a box plot

NOTE :

It is important to start a box plot with a scaled number line. Otherwise the box plot may not be useful.

85. The following box plot shows the U.S. population for 1990, the latest available year.

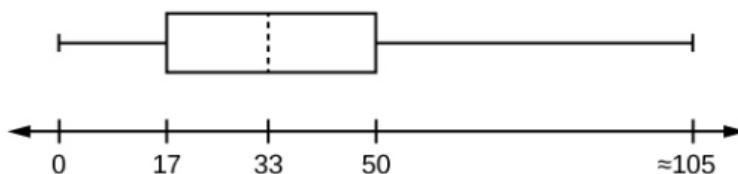


Figure 2.42

- a. Are there fewer or more children (age 17 and under) than senior citizens (age 65 and over)? How do you know?
- b. 12.6% are age 65 and over. Approximately what percentage of the population are working age adults (above age 17 to age 65)?