

The mean weight of National Football League (NFL) quarterbacks is about 24 pounds less than the mean weight of the players in general.

## Box-and-Whisker Plots and Histograms

## EXAMPLE 3 Reading a Box-and-Whisker Plot

The box-and-whisker plot shows the weights of the 59 players on the 2010 Chicago Bears football team. Use the graph to analyze the players' weights.


## SOLUTION

A box-and-whisker plot conveys a wealth of information. Here are some observations you can make about the weights of the players.

- About 15 players weighed between 183 and 202.5 pounds.
- About 15 players weighed between 202.5 and 233 pounds.
- About 15 players weighed between 233 and 276.5 pounds.
- About 15 players weighed between 276.5 and 328 pounds.
- There was a greater range of weights for the heaviest $25 \%$ of the players (about 50 pounds) than there was for the lightest $25 \%$ of the players (about 20 pounds).

You can make your own box-and-whisker plots at Math.andYou.com.

## $\sqrt{\text { Checkpoint }}$

Help at Math.andYOU.com
The box-and-whisker plot shows the weights of the 40-man roster of the 2010 Los Angeles Angels of Anaheim baseball team. Use the graph to analyze the players' weights.

Weights of Los Angeles Angels of Anaheim
Minimum: 170 Median: 200


Lower quartile: 188.75 Upper quartile: 215


