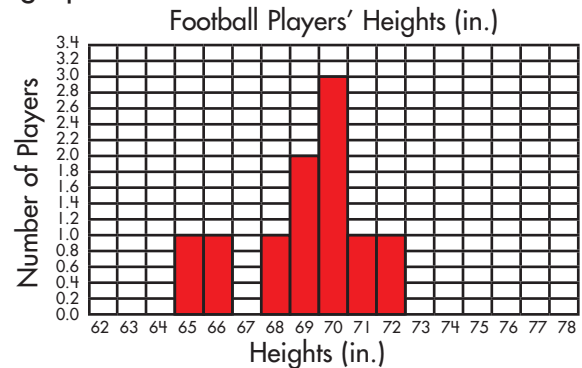
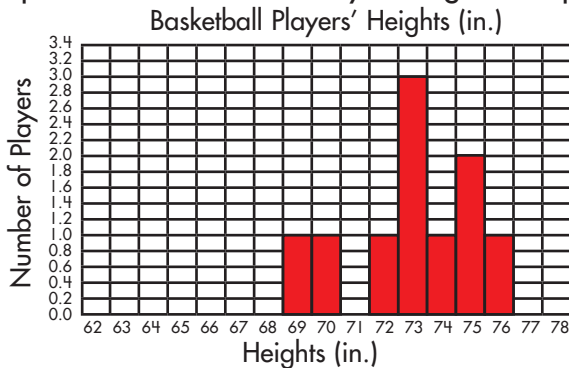


## Lesson 6.4 Comparing Similar Data Sets

Two data sets with similar characteristics can be compared by examining their distribution and measures of center.

Basketball Players' Heights (in.)	Football Players' Heights (in.)
69, 70, 72, 73, 73, 73, 74, 75, 75, 76	65, 66, 68, 69, 69, 70, 70, 71, 72

Compare the two data sets by setting them up on a graph.



These data sets have a similar range, 7 for both. However, when we look at the data sets spread out along the same scale of measurement, we can see that basketball players are generally taller than football players. This can be verified by finding the mean height of basketball players (73 in.) and the mean height of football players (69 in.).

Examine the distributions and measures of center of the data sets below. Then, write 2 to 3 sentences that compare the sets. Make an inference based on the data.

- Compare the calorie counts of 10 different menu items at popular fast food restaurants.

Restaurant 1	Restaurant 2
550, 520, 610, 600, 540, 750, 250, 670, 510, 590	320, 410, 360, 410, 380, 370, 290, 310, 320, 230

- Compare the scores of two different science classes on the same science test.

Class 1	Class 2
78, 78, 78, 80, 85, 88, 90, 92, 100	85, 85, 90, 90, 92, 93, 95, 97, 97, 100

- Compare the prices of 10 different items at a clothing store.

Store 1	Store 2
\$10, \$43, \$6, \$15, \$20, \$48, \$68, \$99, \$47, \$28	\$12, \$46, \$8, \$17, \$19, \$45, \$68, \$100, \$48, \$30