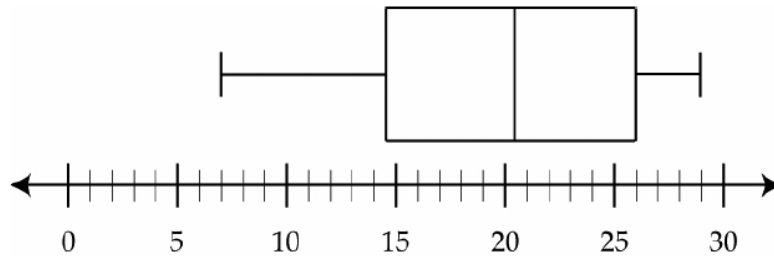


## Interpreting Box-and-Whisker Plots

### CD's

The accompanying box-and-whisker plot represents the cost, in dollars, of twelve CD's.

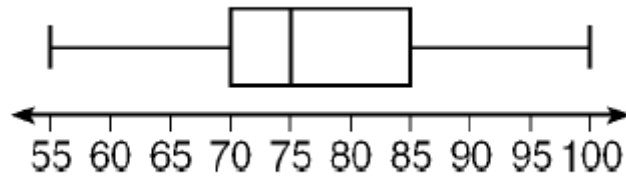


#### Guide Practice

- What is quartile 1?
- What is the upper extreme?
- What is quartile 2 (median)?
- What is the lower extreme?
- What is the interquartile range?
- What is quartile 3?
- How much is the least expensive CD?
- What is the range of the costs of the CD's?
- How much is the most expensive CD?
- How many CD's cost between \$14.50 and \$26.00?

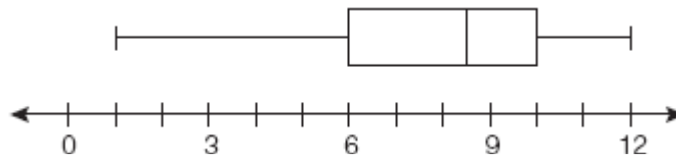
## Interpreting Box-and-Whisker Plots

The accompanying box-and-whisker plot represents the scores earned on a math test.



- 1) What is the median score?
- 2) What score represents the first quartile?
- 3) What statement is *not* true about the box and whisker plot shown?
  - (a) 75 represents the mean score
  - (b) 100 represents the maximum score
  - (c) 85 represents the 3rd quartile
  - (d) 55 represents the minimum score
- 4) A score of an 85 on the box-and-whisker plot shown refers to:
  - (1) the third quartile
  - (2) the median
  - (3) the maximum score
  - (4) the mean

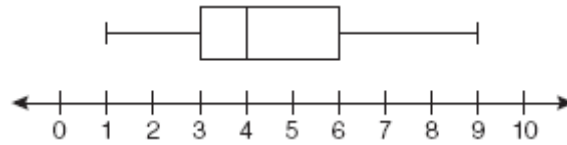
5) What is the value of the third quartile shown on the box-and-whisker plot below?



- (a) 6
- (b) 8.5
- (c) 10
- (d) 12

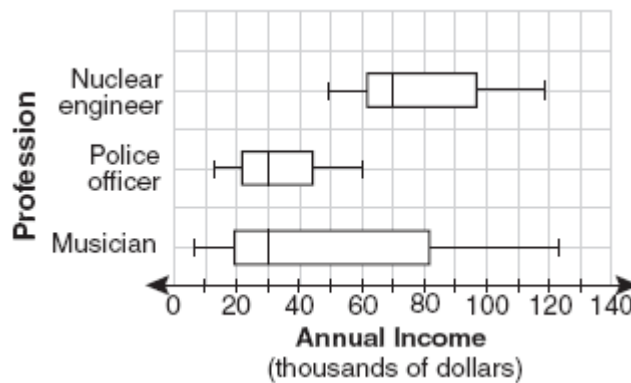
## Interpreting Box-and-Whisker Plots

- 6) A movie theater recorded the number of tickets sold daily for a popular movie during the month of June. The box-and-whisker plot shown below represents the data for the number of tickets sold, in hundreds.



Which conclusion can be made using this plot?

- (a) The second quartile is 600.
  - (b) The mean of the attendance is 400.
  - (c) The range of the attendance is 300 to 600.
  - (d) Twenty-five percent of the attendance is between 300 and 400.
- 7) The accompanying box-and-whisker plots can be used to compare the annual incomes of three professions.



Based on the box-and-whisker plots, which statement is true?

- (a) The median income for nuclear engineers is greater than the income of all musicians.
- (b) The median income for police officers and musicians is the same.
- (c) All nuclear engineers earn more than all police officers.
- (d) A musician will eventually earn more than a police officer.

## Interpreting Box-and-Whisker Plots

8) The data set 5, 6, 7, 8, 9, 9, 9, 10, 12, 14, 17, 17, 18, 19, 19 represents the number of hours spent on the Internet in a week by students in a mathematics class. Which box-and-whisker plot represents the data?

