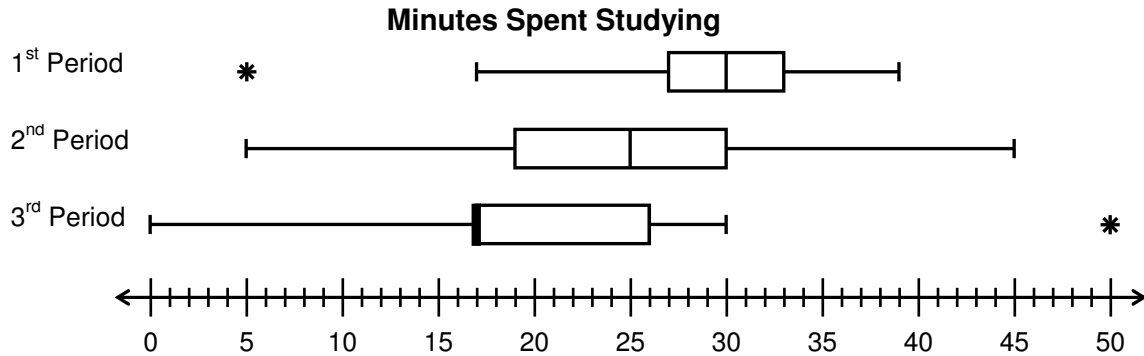


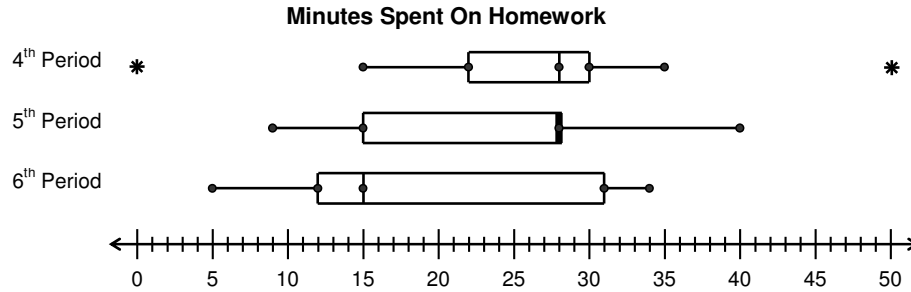
## Analyzing Box-and-Whisker Plots: Classwork

1. Mr. Ohashi asked three of his classes how long they spent studying for the last quiz. He put the results in the box-and-whisker plot below.



- a. Were there any outliers? For which periods, and what were they?
- b. Find the interquartile range (IQR) for each class period.
- c. **Multiple Choice.** About what percent of 1<sup>st</sup> Period spent less than 30 minutes?  
 A. 0%      B. 25%      C. 50%      D. 75%      E. 100%
- d. **Multiple Choice.** About what percent of 2<sup>nd</sup> Period spent less than 30 minutes?  
 A. 0%      B. 25%      C. 50%      D. 75%      E. 100%
- e. **Multiple Choice.** About what percent of 3<sup>rd</sup> Period spent less than 30 minutes?  
 A. 0%      B. 25%      C. 50%      D. 75%      E. 100%
- f. **Multiple Choice.** Between \_\_\_\_\_ of 1<sup>st</sup> Period spent less than 20 minutes.  
 A. 0% and 25%      B. 25% and 50%      C. 50% and 75%      D. 75% and 100%
- g. **Multiple Choice.** Between \_\_\_\_\_ of 2<sup>nd</sup> Period spent less than 20 minutes.  
 A. 0% and 25%      B. 25% and 50%      C. 50% and 75%      D. 75% and 100%
- h. **Multiple Choice.** Between \_\_\_\_\_ of 3<sup>rd</sup> Period spent less than 20 minutes.  
 A. 0% and 25%      B. 25% and 50%      C. 50% and 75%      D. 75% and 100%
- i. Which class do you think spent more time studying? Justify your answer with specific information from the graph.

2. Mr. Ohashi asked his other three classes how long they spent on last night's homework. He put the results in the box-and-whisker plot below.



- Were there any outliers? For which periods and what were they?
- Find the interquartile range (IQR) for each class period.
- About what percent of 4<sup>th</sup> Period spent more than 15 minutes?
- About what percent of 5<sup>th</sup> Period spent more than 15 minutes?
- About what percent of 6<sup>th</sup> Period spent more than 15 minutes?
- Multiple Choice.** Between \_\_\_\_\_ of 4<sup>th</sup> Period spent more than 20 minutes.  
 A. 0% and 25%    B. 25% and 50%    C. 50% and 75%    D. 75% and 100%
- Multiple Choice.** Between \_\_\_\_\_ of 5<sup>th</sup> Period spent more than 20 minutes.  
 A. 0% and 25%    B. 25% and 50%    C. 50% and 75%    D. 75% and 100%
- Multiple Choice.** Between \_\_\_\_\_ of 6<sup>th</sup> Period spent more than 20 minutes.  
 A. 0% and 25%    B. 25% and 50%    C. 50% and 75%    D. 75% and 100%
- Which period had the highest maximum value?
- Which period had the highest upper quartile?
- Which period had the highest median?
- Which class do you think spent more time on homework? Justify your answer with specific information from the graph.

## Analyzing Box-and-Whisker Plots: Homework

3. Jo kept track of how many minutes he spent reading each day and organized them in the table below.

10	15	15	18	19	25	28	30	30	30	35	45	50	90
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- a. Find the five-number summary.

Min:

LQ:

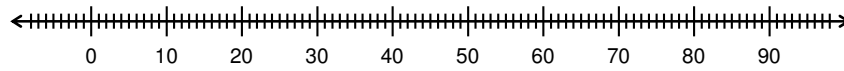
Median:

UQ:

Max:

- b. Give the interquartile range (IQR).

- c. Make a box-and-whisker plot for the prices. Be sure to include a title.



4. Answer ACE #14-17 on page 74-75. Read the bolded information on p.74, then complete the statements based on the two box-and-whisker plots on p.75.

<b>14.</b>	<b>15.</b>	<b>16.</b>	<b>17.</b>
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5. Answer ACE #18-20 on p.75. Read the bolded instructions, then answer based on the same box-and-whisker plots as before.

<b>18.</b>
<b>19.</b>
<b>20.</b>