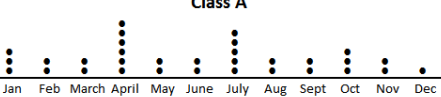
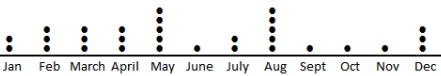
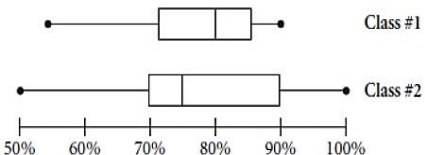
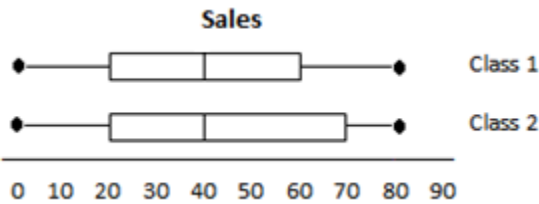


Content Standard	<p><b>MAFS.7.SP Statistics and Probability</b></p> <p><b>MAFS.7.SP.2</b> Draw informal comparative inferences about two populations.</p> <p><b>MAFS.7.SP.2.3</b> Informally assess the degree of visual overlap of two numerical data distributions with similar variability, measuring the difference between the centers by expressing it as a multiple of a measure of variability. <i>For example, the mean height of players on the basketball team is 10 cm greater than the mean height of players on the soccer team, about twice the variability (mean absolute deviation) on either team; on a dot plot, the separation between the two distributions of heights is noticeable.</i></p> <p>Also Assesses:</p> <p><b>MAFS.7.SP.2.4</b> Use measures of center and measures of variability for numerical data from random samples to draw informal comparative inferences about two populations. <i>For example, decide whether the words in a chapter of a seventh-grade science book are generally longer than the words in a chapter of a fourth-grade science book.</i></p>	
Assessment Limits	<p>Numbers in items must be rational numbers.</p> <p>Two data sets are required for comparison.</p>	
Calculator	Neutral	
Item Type	<p>Equation Editor</p> <p>GRID</p> <p>Multiple Choice</p> <p>Multiselect</p>	
Context	Required	
Sample Item	<p>Dot plots for the birthdays of the students in two classes are shown.</p> <div style="text-align: center;"> <p><b>Class A</b></p>  <p><b>Class B</b></p>  </div> <p>Which measure do both classes have in common?</p> <p>A. mean</p> <p>B. median</p> <p>C. mode</p> <p>D. interquartile range</p>	
	Multiple Choice	

Sample Item	Item Type
<p>Box plots for chapter 6 test scores of two classes are shown.</p>  <p>What is the difference in the mean between the two sets of data?</p>	Equation Editor
<p>Two classes in a school conduct a fundraiser and record the number of sales each day for 2 weeks. Box plots for the sales of the two classes are shown.</p>  <p>What feature is different in both sets of data?</p> <p>A. interquartile range B. mean C. median D. range</p>	Multiple Choice
<p>Two classes have a trivia contest. Each student is asked eight questions and is scored on the number of correct answers. The teachers create a dot plot of the scores from 15 students from Class A and 14 students from Class B, as shown.</p> <p>Another score is added to the plot for Class B to make the median of the two data sets equal.</p> <p>Click on the dot plot to show where this score could have been added.</p>	<p>GRID</p> 