Content Standard	***MAFS.6.SP.2*** *Summarize and describe distributions* ***MAFS.6.SP.2.5*** *Summarize numerical data sets in relation to their context, such as by:* ***MAFS.6.SP.2.5a*** Reporting the number of observations. ***MAFS.6.SP.2.5b*** Describing the nature of the attribute under investigation, including how it was measured and its units of measurement. ***MAFS.6.SP.2.5c*** Giving quantitative measures of center (median and/or mean) and variability (interquartile range and/or mean absolute deviation), as well as describing any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered. ***MAFS.6.SP.2.5d*** Relating the choice of measures of center and variability to the shape of the data distribution and the context in which the data were gathered.
Assessment Limits	Numbers in items must be rational numbers. Displays should include only dot/line plots, box plots, or histograms.
Calculator	No
Item Types	Equation Editor GRID Multiple Choice Multiselect
Context	Required

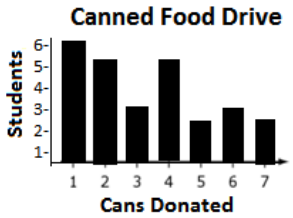
Sample Item	Item Type
A table of data is shown. **Week** / **Number of people** 1 — 16,325 2 — 18,140 3 — 17,362 4 — 16,697 5 — 16,786 Tim drives the Grand Avenue bus route. He counts the total number of people who ride the bus each week for 5 weeks. What is the range of the number of people who ride the bus each week?	Equation Editor
Alex found the mean number of food cans that were donated by students for the canned food drive at Epping Middle School. Alex's work is shown. $\frac{1+2+5+3+6+1+4+4+2+1+2+3+7+2+4+1}{16}=3$ How many students donated food cans?	Equation Editor

<table>
<tr><th>Sample Item</th><th>Item Type</th></tr>
<tr><td>A set of data is shown.

<table>
<tr><th>Week</th><th>Number of people</th></tr>
<tr><td>1</td><td>17,012</td></tr>
<tr><td>2</td><td>18,140</td></tr>
<tr><td>3</td><td>17,362</td></tr>
<tr><td>4</td><td>16,697</td></tr>
<tr><td>5</td><td>14,387</td></tr>
</table>

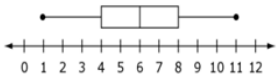
Tim drives the Grand Avenue bus route. He counts the total number of people who ride the bus each week for 5 weeks.

What is the interquartile range of the data?</td><td>Equation Editor</td></tr>
<tr><td>A graph shows the number of cans students at Epping Middle School collected for a canned food drive.

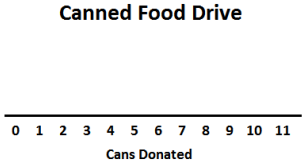
 

Select all of the statements that describe the best measure of center to represent the data set.

☐ Mode
☐ Mean
☐ Range
☐ Median
☐ Interquartile Range</td><td>Multiselect</td></tr>
<tr><td>A box plot shows the spread of the numbers of cans brought by students for a food drive.

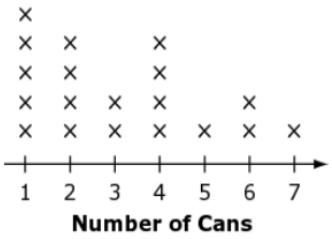
 

Create a possible line plot, given that 25 students donated cans, using the values from the box plot.

 
</td><td>GRID</td></tr>
</table>

Sample Item	Item Type
	Equation Editor

A line plot shows the number of cans a class of students at Epping Middle School collected for a canned food drive.



How many students collected cans of food?