

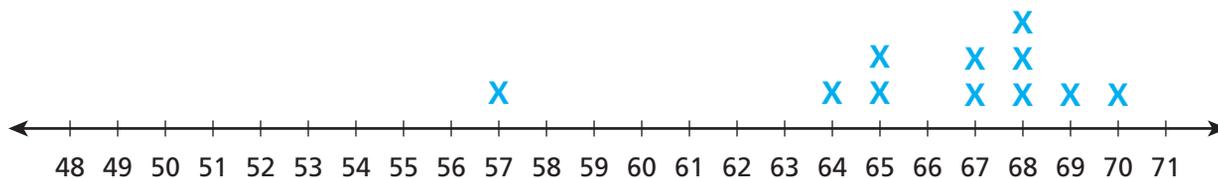
K-PREP
Sample Items
2012

Mathematics Grade 6

1

Coach Wendell recorded the number of football players at training camp each day for several days on the dot plot below.

Number of Football Players Each Training Camp Day



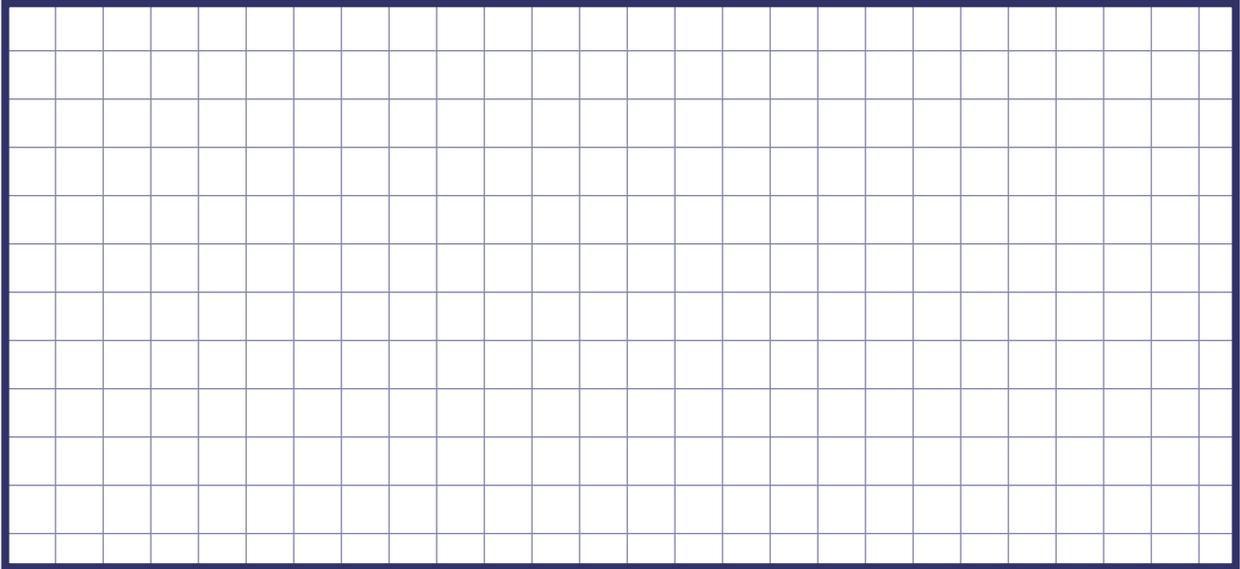
Each X represents 1 day.

Part A What is the difference between the interquartile range and the range of the data? Show your work or explain your thinking.

Part B Explain how the answer you gave in **part A** would be affected if you deleted the lowest data point.

Mathematics

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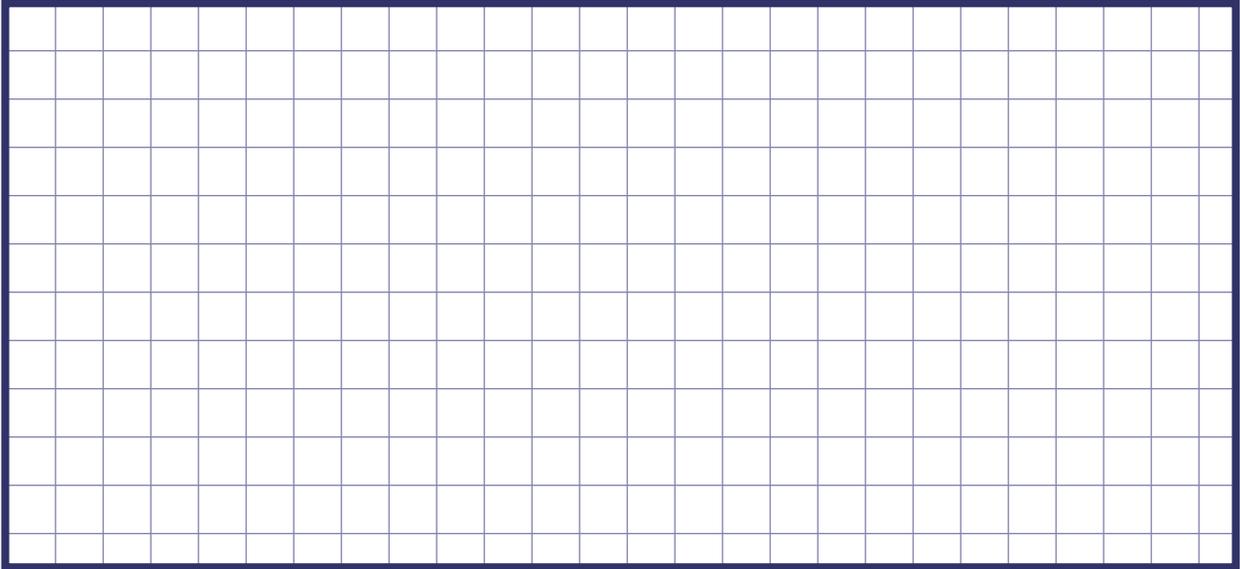


2

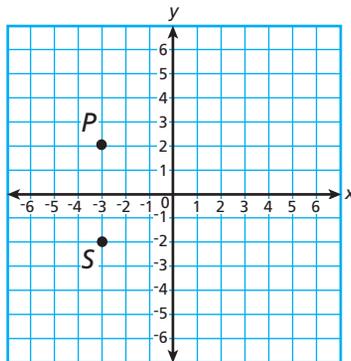
A package of six construction toys costs \$14.94, not including tax. If purchased separately, each truck is \$2.99, not including tax. What is the difference in the unit rate and the individual rate? Show your work or explain your thinking.

Mathematics

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A coordinate plane with points P and S is shown below.



Part A Plot point Q so that it is a reflection of point P across the y -axis. What are the coordinates of point Q ? Explain your thinking.

Part B The coordinates of point S are $(-3, -2)$. Explain how point S is related to point P .

Part C Point R is plotted on the coordinate graph so that line segments SR and PQ are a reflection of each other. What would have to be the coordinates of point R ? Explain your thinking.

Mathematics

Do not write outside this box.

