

# Statistics Practice

Answer Key

Two basketball teams have recorded the number of points they scored each game this season. Use this data to complete the following exercises.

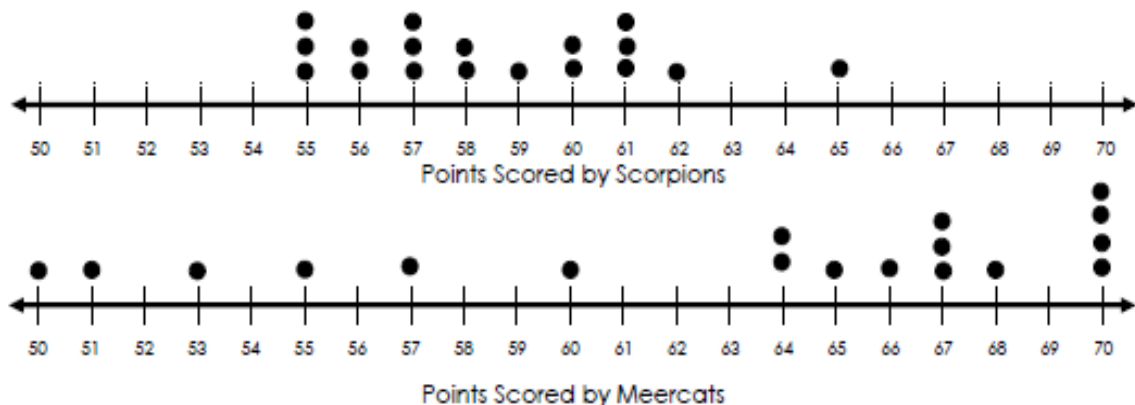
The SCORPIONS:

55 56 60 60 61 57 65 58 55 56 62 61 57 59 55 57 61 58

The MEERCATS:

70 50 70 53 68 67 55 60 65 70 66 51 70 64 67 67 57 64

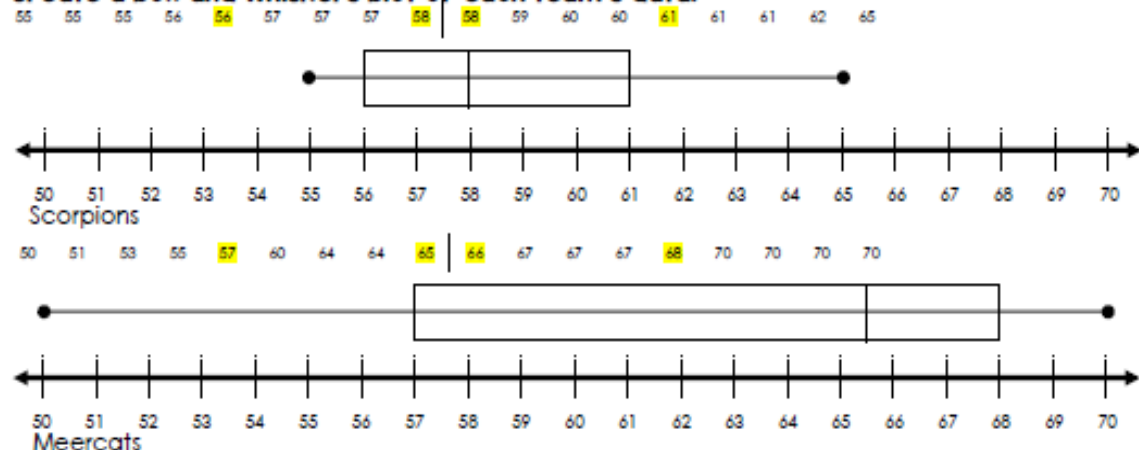
Create a dot plot of each team's data.



Compare the 2 teams based on the dot plots:

Answers will vary. The Scorpions are more consistent. The Meercats have a greater range of scores. They have more high scoring games, but they have had several low scores too.

Create a box and whiskers blot of each team's data.



Explain why the shapes of the box and whiskers plots differ.

Answers will vary. The shorter box and shorter whiskers of the Scorpions show they have a smaller range of scores. The large span of the Meercats' box and whiskers shows they have a wide range of scores and are not consistent. The Meercats' data is skewed left. (Students may take this a step further, calculating the mean and noting it is less than the median.)

**Bonus: Calculate the mean and mean absolute deviation for each team.**

Scorpions Mean: 58.5, MAD: 2.3      Meercats Mean: 63, MAD: 5.7