Info Gap: African and Asian Elephants

Problem Card 1

Weights for two different populations of African elephants at different locations are recorded.

a. Which of the populations has a heavier typical weight? Explain your reasoning.
b. Which of the populations has greater variability in weights? Explain your reasoning.

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Data Card 1

Population A
- Mean: 10,742 pounds
- Median: 10,909 pounds
- Standard deviation: 1,213 pounds
- Interquartile range: 2,143 pounds
- The distribution is symmetric

Population B
- Mean: 10,457 pounds
- Median: 10,497 pounds
- Standard deviation: 1,379 pounds
- Interquartile range: 1,994 pounds
- The distribution is symmetric

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Problem Card 2

Scientists compared weights for a sample of African elephants to the weights for a sample of Asian elephants.

Although the comparison analysis can be found, the dot plot and the data has been lost for the Asian elephants. Draw a possible dot plot for the Asian elephants that fits the comparison.

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Data Card 2

- The mean weight for the African elephants is 10,000 pounds.
- The standard deviation for the weight of African elephants is 577.35 pounds.
- The mean weight for the Asian elephants is 2,000 pounds less than the mean weight for the African elephants.
- The standard deviation for the Asian elephants is less than the standard deviation for the African elephants.
- The shape of the distributions for both types of elephants is the same.
- The samples each included 9 individual elephants.