

- Kaleana, Quay, Marty and Shana discuss their test scores. Kaleana is the only one who shows her score to the others. Quay says, "At least two of us have the same score." Marty says, "I didn't get the lowest score." Shana adds, "I didn't get the highest score." Rank the scores from lowest to highest for Marty (M), Quay (Q) and Shana (S).

(A) S,Q,M

(B) Q,M,S

(C) Q,S,M

(D) M,S,Q

(E) S,M,Q

2001 AMC 8, Problem #20— "How does everyone's score relate to Kaleana's score?"

- **Solution**

(A) Quay indicates that she has the same score as Kaleana. Marty's statement indicates that her score is higher than Kaleana's, and Shana's statement indicates that her score is lower than Kaleana's. The sequence S,Q,M is the correct one.

Difficulty: Medium-hard

NCTM Standard: Data Analysis and Probability Standard: Develop and evaluate inferences and predictions that are based on data

Mathworld.com Classification: Foundations of Mathematics > Logic > General Logic > Logic