5. Each of five students used the same ruler to measure the length of the same pencil. These data resulted: 15.33 cm, 15.34 cm, 15.33 cm, 15.34 cm. The actual length of the pencil was 15.85 cm. Describe whether accuracy and precision are each good or poor for these measurements.

ACCURACY: POOR
PRECISION: GOOD

6.) Mr. Andrej asks you, Bill and Geoff to measure the mass of a sample of aluminum (Al). Mr. Andrej also measures the mass of aluminum. You measure the mass three times, and obtain the following data: 6.74, 6.70, and 6.71 g. The actual value is 6.70 g. Here are the results of Bill, Geoff, and Andrej:

Bill: 6.50, 6.49, and 6.52 g Geoff: 6.57, 6.82, and 6.71 g Andrej: 6.61, 6.70, and 6.87 g

a) Graph all four sets of data.

b) Which results are most precise? BILL

(c) Which results are most accurate?

(d) Which results have the highest accuracy and precision?

