A block of insulating material has a positive charge distributed uniformly throughout its volume. The block is broken into two unequal pieces, A and B, as shown.

Three students make the following statements about the charge density of pieces A and B:

Alicia: "Charge density is the charge divided by the volume, and the volume of

B is smaller. Since the charge is uniform, and the volume is in the

denominator, the charge density is larger for B."

Bao: "The charge density of piece A is larger than the charge density of piece B. Piece A is

larger, so it has more charge."

Craig: "They both have the same charge density. It's still the same material."

Which of these students is correct?

