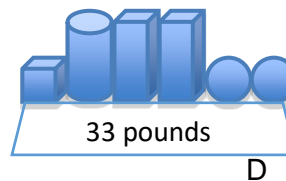
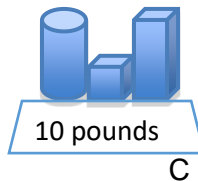
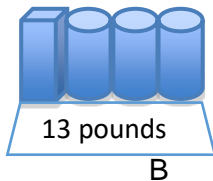
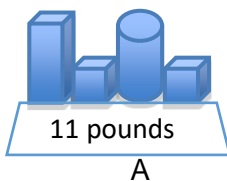


DEFEND YOUR OPINION



Same shapes have the same weight.

Decide if each statement below is true or false. Explain your answer.

Julie: “ weighs more than .”

Tom: “ weighs less than .”

Marcus: “ weighs the same as .”

Solution:

Julie: True. (8 pounds is greater than 1 pound)

Tom: True. (1 pound is less than 2 pounds)

Marcus: False. ($7 + 8$, or 15 pounds \neq $8 + 2 + 2 + 1$, or 13 pounds)

Explanation:

1. Since all of C is on A, the cube is $11 - 10$, or 1 pound.
2. On C, since the cube is 1 pound, the cylinder and rectangular prism together are 9 pounds.
3. On B, since one cylinder and one rectangular prism together are 9 pounds, the extra two cylinders are $13 - 9$, or 4 pounds, and one cylinder is 2 pounds.
4. On C, replace the cube with 1 pound and the cylinder with 2 pounds. Then the rectangular prism is 7 pounds.
5. On D, replace the cube with 1 pound, the cylinder with 2 pounds, and each rectangular prism with 7 pounds. Then the 2 spheres are $33 - 17$, or 16 pounds, and one sphere is 8 pounds.