Name _____ Date _____

Using Density in Real-life Situations - Matching Worksheet

Write the letter of the answer that matches the problem.

_____ 1. Owen finds a rock on the way to his home. He determines the volume of the rock is 4.69 ml and the density is 1.563 g/ml. What is the mass of the rock?

_____ 2. Paul is a child who has a toy spoon. The density and volume of the spoon is 2.26 g/ml, 3.2 ml. What is the weight of the toy spoon?

_____ 3. A room is 2,000 square feet. The population density to 0.0035 people per square foot. This included all people in the room. How many total people can occupy this room?

_____ 4. Roger is Roland's younger brother. His mother told him to buy a light weight bag from the store. There are two bags in the store, one is red and one is blue. The dimensions of red bag are height 30 cm, length 17 cm, width 25 cm and it has a density of 0.0013 kg/cm^3. The dimensions of blue bag are height 22 cm, length 18 cm, width 28 cm and it has a density of 0.0014 kg/cm^3. Which bag is lighter?

_____ 5. A small and fast Courier Company has a fixed the size of parcel that it transports. The parcel cannot be more than 15 kg and a have a volume of 20,000 cm^3. Jack has two to bag parcels to send. The density of blue bag parcel is 0.0011 kg/cm3, the height is 15 cm, the width is 35 cm, and the length is 30 cm. The density of red bag parcel is 0.0012 kg/cm3, the height is 11 cm, the width is 28 cm, and the length is 36 cm. Which parcel qualifies to be sent by the Courier Company?

a. 7.23 grams

b. 7

c. 7.33 grams

d. Red bag

e. Blue bag