Sizing Up the Situation

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- 1) If an elevator can hold ten average eighth graders, its weight limit might be (8 kg, 80 kg, 800 kg).
- 2) At a typical breakfast you might eat (10 g, 500 g, 1000 g) of pancakes and drink (10 mL, 500 mL, 1000 mL) of juice.
- 3) To fill an empty car tank with gasoline, you might put in (8 L, 80 L, 800 L).
- 4) If a bridge has a weight limit of 5 metric tons, then (2 cars, 10 cars, 20 cars) could use it at one time. (Note: The symbol for metric ton is t and 1 t = 1000 kg)
- 5) You probably weigh about (4 kg, 40 kg, 400 kg).
- 6) A individual-sized carton of milk holds about (2 mL, 25 mL, 250 mL).
- 7) Books for three classes together weigh approximately (3 kg, 30 kg, 300 kg).

Sizing Up the Situation (continued)



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Try this experiment:

Find and record the weights (masses) of one liter of water, juice (or some other liquid), rice, sand, and dried beans. Be sure to weigh the container when it is empty and subtract its weight from the total.

1 liter of water juice rice sand beans weighs ____g ___g ___g ___g

8) Based on the results of the experiment, one milliliter of water weighs (1 g, 10 g, 100 g).

Discuss your answers to the questions with your classmates. Be ready to prove that your answers are correct.