

Sizing Up the Situation (instructions and answers)



Objective

Experience in estimating the weight and capacity of everyday objects and experimenting with the relationship between liters and grams.

Materials needed

Scales or balances with weights to measure in grams; a scale that can measure a person's weight; liter container; containers calibrated in milliliters; and one liter each of water, juice, rice, sand, and dried beans.

Review

Be sure students understand that capacities are measured in liters (L) and milliliters (mL), and that weight (mass) is measured in grams (g) and kilograms (kg).

Directions for teachers

Distribute the worksheets. Have the students circle the best answer for each of the multiple-choice questions. They should also do the experiment. Discuss the answers for all questions and have students prove their answers to classmates in case of a question.

Answers

1) 800 kg; 2) 500 g, 500 mL; 3) 80 L; 4) 2 cars; 5) 40 kg; 6) 250 mL; 7) 3 kg; 8) 1 g.