

Chapter 7 Review

Educated Guess

Have you ever been to a carnival and seen a booth where the worker guesses people's weight or height? Follow the steps in this activity to see if you can guess the heights of the members of your family.

1. With a parent and a tape measure, find the height of a wall in your home. Make sure the wall has lots of things on it, such as paintings, decorations, a window, and so on. Record the height of your wall in feet.
2. Find objects on your wall that are located at different fractions of the height of the wall. For example, find something, perhaps a light switch, that is located at $\frac{1}{2}$ the height of the wall. Find another object, perhaps the top of a poster, that is located at $\frac{3}{4}$ the height of the wall. If your wall is 8 feet tall, then $\frac{1}{2}$ of 8 feet is 4 feet, and $\frac{3}{4}$ of 8 feet is 6 feet. Record the heights of the different objects on your wall here.
3. Now you are ready to guess someone's height. Have a family member walk by the wall that you measured while you are on the other side of the room. Use the objects that you measured on the wall to estimate your family member's height. Repeat this for other family members and friends. Record the name and height of each person here.
4. Once you have guessed everyone's height, have your parent help you measure everyone's height using the tape measure. How close were your guesses?

Answers are located on page 114.