1. Ann drops a pebble over the side of a bridge. The pebble hits water 2.5 seconds later. How far did it fall?
2. You are standing on a tall building and want to find out how tall it really is. You decide to drop your physics book off the building. It takes 2.00 s to reach the ground. How high is the building?
3. How long is Caitlin, a dancer, in the air when she jumps straight up with a speed of 1.8 m/s?
4. Laquita wants to toss a tennis ball straight up to Michele who is 5.0 meters above her. If she wants the ball to stop just as it reaches Michele, how fast should she toss the ball?
5. Standing on top of a building, Bob tosses a baseball straight up with an initial speed of 15 m/s. It takes 4.0 s for the ball to hit the ground. How tall is the building? (g = -9.8 m/s²)