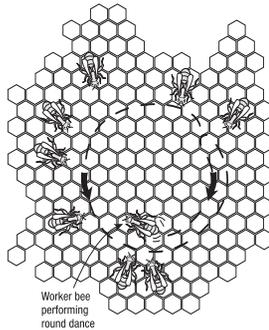




Honey, I'd Love to Dance

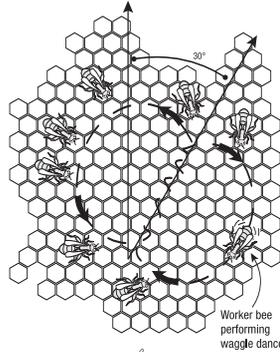
There are several bee dances, but the most common are the round dance and the waggle dance. Read the descriptions of both dances below, then write (in your own words) what the worker bee is "saying" on the lines to the right.

Round Dance When food is close to the hive (less than 100 yards), a worker bee performs the round dance. She goes round and round, first one way and then the other. The round dance does not show the exact location of the flowers so fellow worker bees must fly out in many directions looking for them.



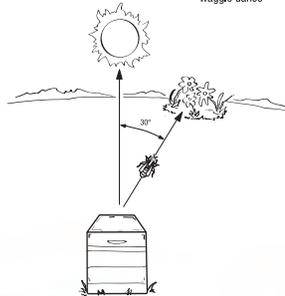
This is what the worker bee is communicating:

Waggle Dance If the flowers are more than 100 yards away from the hive, the returning bee performs the waggle dance. The bee dances a half circle in one direction, turns, and runs straight while wagging her abdomen. Then she dances a half circle in the other direction.



This is what the worker bee is communicating:

If the food is in the same direction as the sun, the central run of the dance is straight up the comb. If the food is to the left or right of the sun, the bee alters the direction of the dance by the correct amount to the left or right of the upright line. The distance between the hive and the food is communicated by the speed of the dance (fast means close and slow means far).



Putting Bees on the Map: Calculating Distance

Every map includes an important tool: a scale. A scale shows the relationship between distance on a map and distance on the ground. For instance, one centimeter on a map may represent 10 miles on the ground. Use the scale on the Get the Buzz on Honey Bees map to answer the questions below.

- Orange blossom honey is valued for its fragrance and is harvested in Florida and California. Approximately how far is the capital of California from the capital of Florida? _____
- Alfalfa is a pasture crop fed to horses and cows. Alfalfa honey is found in many states, including Oregon, Idaho, and Nevada. Approximately which is greater, the distance from Oregon's capital to the capital of Nevada, OR the distance from Oregon's capital to the capital of Idaho? _____ How do you know? _____

Now, can you use the scale to approximate the distance from Boston to Sacramento? _____