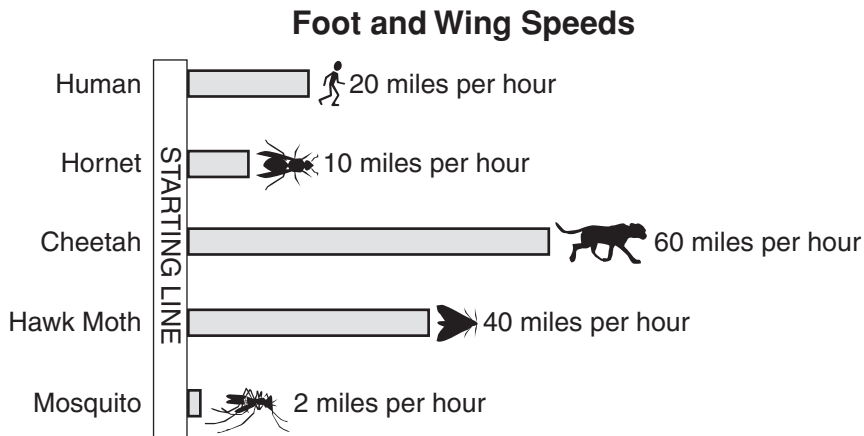


Foot and Wing Race

The graph below shows the top speeds at which certain animals and insects can travel. These speeds are measured over short distances. Imagine that the animals and insects could run or fly at these speeds for many hours and over longer distances.



1. A cheetah is how many times as fast as a human?

2. In a race, suppose a human has a 2-hour head start on a cheetah. After 3 hours has the cheetah caught up to the human? Explain.

3. In a race between a hornet and a hawk moth, which would win? Would the race be close? Explain.

4. How many hours would it take for a hornet to travel the same distance that a cheetah can travel in one hour? _____
5. In 1 hour, how much farther does a hawk moth fly than a mosquito? _____
6. Which insect or animal travels 5 times as fast as a mosquito? _____