Answer on Question #52644 – Math - Algebra

Suppose that a butterfly can fly 82 feet in 4 seconds, a dragonfly can fly 50 feet in 2 seconds. Which can fly faster and by how much?

Solution

 $S_1 = 82$ ft, $t_1 = 4$ s, $S_2 = 50$ ft, $t_2 = 2$ s.

Using formula $V = \frac{s}{t}$, we have that the speed of butterfly's movement is

 $V_1 = \frac{S_1}{t_1} = \frac{82}{4} = 20.5$ ft/s; the speed of dragonfly's movement is $V_2 = \frac{S_2}{t_2} = \frac{50}{2} = 25$ ft/s.

So, $V_1 = 20.5 < 25 = V_2$ and dragonfly can fly faster by 25 - 20.5 = 4.5 ft/s.

Answer: dragonfly can fly faster by 4,5 ft/s.