

Bad Day Boris 2: The Baddest Day

Can you believe it? Boris is having an even worse day than before! Help him by showing off your constant speed/velocity problem solving skills.



1. Boris walks at a speed of 5 m/s for 200 seconds. Then, he decides he needs to run to get away from the crazy squirrel chasing him, and he speeds up to 7 m/s for 350 seconds. What is Boris' average speed for the trip?

$$\bar{s} = \quad \text{m/s}$$

2. Once he escapes the squirrel, Boris realizes that he forgot his keys at home! Assuming he started from his house in #1, how fast must Boris run to get home in 250 seconds?

$$s = \quad \text{m/s}$$

3. Oh no! Boris now realizes he has to hurry to work in order to not be late! Boris knows that he has to run at a constant speed of 8 m/s for five minutes in order to make it to work on time. How far away is Boris' job?

$$d = \quad \text{m/s}$$

4. When he is halfway to work, Boris hops on his skateboard, which lets him move at 14 m/s! Now how long will it take him to get to work?

$$t = \quad \text{m/s}$$

5. Boris makes it to work early, but his boss wants him to collect the coal that is located 4 km away. In order to keep his job, Boris needs to get to the coal in under five minutes! Can Boris make it to the basket in time if he rides his skateboard?

Yes / No