

§1.2 # 15 Rock's Question

Eritz's speed is 60 mph on average

But today, his speed was 45 mph. to work

Can he drive home fast enough to average

60 mph for the round trip? How fast?

Let  $x$  = the speed he must drive home  
at (in mph).

Want avg speed to be 60 mph

$$\text{Avg} = \frac{45 + x}{2} \quad \text{want} = 60$$

$$\Rightarrow 2\left(\frac{45 + x}{2}\right) = 2(60)$$

$$45 + x = 120$$

$$\boxed{x = 75}$$