A Word Problem!

Justin's average speed on his way to school is 40 mi/h, and his average speed on the way home is 45 mi/h. What is Justin's average speed for the entire trip? Round to the nearest tenth.

Time =
$$\frac{d}{40}$$

Time = $\frac{d}{40}$

Total dist = $\frac{d}{45}$

Total dist = $\frac{d}{45}$

Avg. spend = $\frac{2d}{40} + \frac{d}{45}$

(2d)(360)

 $\frac{2d}{40} + \frac{d}{45}$
 $\frac{2d}{40} + \frac{2d}{45}$
 $\frac{2d}{40}$