

# Vectors: Velocity



Draw a scale diagram and find the average speed and velocity of the Martian Rover.

$$\overline{v} = \frac{s}{t}$$

$$\overline{v} = \frac{d}{t}$$

<p>1. Start: 5 km due East then 6 km due South and stop.  Time: 2 hours</p>	<p>2. Start: 3 km due East then 3 km due South followed by 3 km due West and stop.  Time: 1 hour</p>	<p>3. Start: 4 km due East then 2 km due South then 4 km due East followed by 2 km due South and stop.  Time 3 hours</p>
<p>4. Start: 3 km due West then 3 km due East then stop. Time 2 hours.  * What do you notice about the average speed and average velocity?</p>	<p>5. Start: 6 km due East then 6 km on a bearing of <math>230^\circ</math> then stop.  Time 3 hours.</p>	<p>6. Start: 4 km due South followed by 5 km on a bearing of <math>060^\circ</math> then stop.  Time 5 hours</p>