

Fill in the Blanks

Modelling with Vectors

Displacement (m)	Distance (m)	Time (s)	Velocity (ms^{-1})	Speed (ms^{-1})	Bearing
$25\mathbf{i} + 60\mathbf{j}$	65	5	$5\mathbf{i} + 12\mathbf{j}$	13	022.6°
$8\mathbf{i} - 6\mathbf{j}$		2			
$-6\mathbf{i} - 2\mathbf{j}$		4			
	$2\sqrt{2}$		$-4\mathbf{i} + 4\mathbf{j}$		
$3\sqrt{3}\mathbf{i} + 4\sqrt{3}\mathbf{j}$		0.25			
	18		$\frac{5\sqrt{3}}{3}\mathbf{i} - \frac{\sqrt{6}}{3}\mathbf{j}$		
		12	$-\frac{\sqrt{3}}{2}\mathbf{i} + \frac{1}{2}\mathbf{j}$		
		1.5		4	225°
	15			5	150°