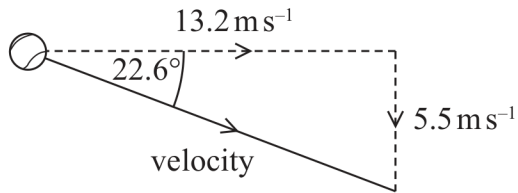


- 4 A tennis ball is moving through the air. The diagram shows the horizontal and vertical components of its velocity.



Which of the following expressions gives the magnitude of the velocity in  $\text{ms}^{-1}$ ?

- ☐ A  $\frac{13.2}{\sin 22.6^\circ}$
- ☐ B  $13.2 \times \sin 22.6^\circ$
- ☐ C  $\frac{5.5}{\sin 22.6^\circ}$
- ☐ D  $5.5 \times \sin 22.6^\circ$

(Total for Question 4 = 1 mark)