

- 6** In still air, a bird can fly at a speed of  $10 \text{ m s}^{-1}$ . The wind is blowing from the east at  $8.0 \text{ m s}^{-1}$ .

In which direction must the bird fly in order to travel to a destination that is due north of the bird's current location?

- A**  $37^\circ$  east of north
- B**  $37^\circ$  west of north
- C**  $53^\circ$  east of north
- D**  $53^\circ$  west of north