

- 7 A stone is thrown horizontally off a cliff and then lands in the sea. Air resistance is negligible.

Which statement about the stone's motion is **not** correct?

- A The final displacement of the stone depends upon its initial horizontal velocity.
- B The stone travels with a constant horizontal component of velocity until it hits the water.
- C The stone travels with an increasing vertical component of velocity.
- D The time taken for the stone to hit the surface of the water depends on its initial horizontal velocity.