

### Quiz 1 Solutions

Someone knocks over the first dominoe in a long string and they fall over one after the other.

1. Is this phenomenon a wave?

**Yes. Energy is being transported from one place to another by a disturbance.**

2. Is it a periodic wave?

**No. There are no repetitions of motion at a given point or time.**

3. What sort of wave is it?

a. not a wave

b. a transverse wave

c. a longitudinal wave

**d. a transverse and longitudinal wave**

**A falling dominoe has both forward (longitudinal) and downward (transverse) motion.**

e. neither a transverse nor a longitudinal wave

4. If four dominoes fall over per second and they are set 20 cm apart, what is the speed of the disturbance?

a. 80 m/s

**b. 0.8 m/s**

c. 1.25 m/s

d. 0.05 m/s

e. cannot be determined