

## Make Some Waves Activity – Wave Worksheet – **Answers**



### Instructions

Complete the following questions.

1) What is a wave?

**A traveling disturbance in a medium.**

2) Describe a difference between longitudinal and transverse waves.

**In a longitudinal wave, the disturbance travels in the same direction as the wave, while in a transverse wave, the disturbance moves perpendicular to the direction of the traveling wave.**

3) Give one example of a longitudinal wave and one example of a transverse wave.

**Transverse – Slinky moved up and down, ripple in a pond, “wave” in a stadium.**

**Longitudinal – Slinky pushed back and forth, dominoes, ripples in a pond.**

4) Think about the gold coin Angie and Harmon found on the sea floor. What kind of wave behavior would bring a gold coin close to shore?

**A transverse wave only makes things move up and down, it doesn’t push them. Ocean waves show both transverse wave behavior and longitudinal behavior. The longitudinal wave behavior pushed the coin towards shore.**