

Student Sheet

Slinky Lab – Earthquakes and Waves

Directions: Sketch the motions of the waves and fill in the table below for each trial.

Type of earthquake wave	Sketch of the movement of the spring
Pull and Push (Compressional or P-wave)	
Side to Side (Shear or S-wave)	

Wave speed

Type of earthquake wave	Time for one complete trip of the wave – back and forth (seconds)			
	Trial 1	Trial 2	Trial 3	Average
P-wave				
S-wave				

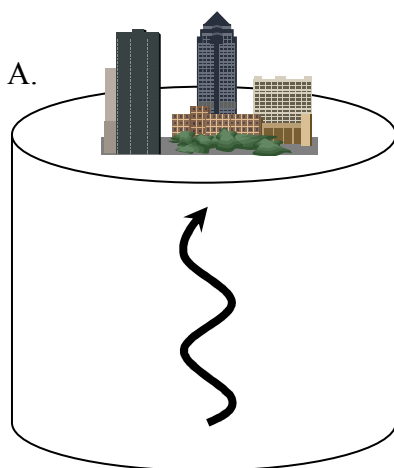
Answer the following questions:

A. Which of the seismic waves move fastest? _____

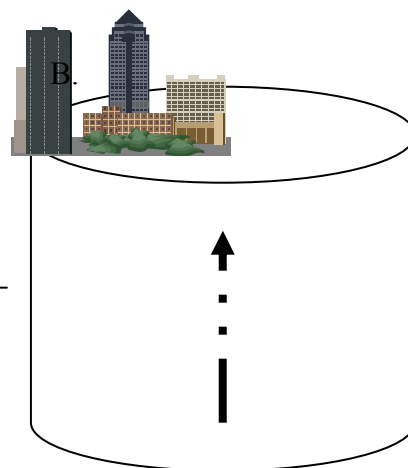
B. Which wave do you think would be more destructive? _____

Why? _____

C. For the pictures below, indicate on the line by each picture if the wave shown is a P-wave or an S-wave. Draw on the buildings how the earthquake wave might move the ground (use arrows).



A. _____



B. _____