**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_**

**Chapter 21 Layers of the Earth, Plate Tectonics, and Earthquakes Homework**

1. **The three MAIN layers of the earth are:**
2. **The coolest of the layers is:**
3. **What is the difference between oceanic and continental crust?**
4. **Which layer of the Earth makes up about 80% of earth’s volume?**
5. **When all of the continents were together, the supercontinent was called:**
6. **What is the difference between the lithosphere and asthenosphere?**
7. **Which type of plate boundary forms mid-oceanic ridges and rift valleys?**
8. **Which type of plate boundary destroys older lithosphere?**
9. **Which type of plate boundary forms ocean trenches, mountains, and volcanoes?**
10. **What is a transform fault boundary?**
11. **Subduction zones occur at what types of boundaries?**
12. **What is the difference between a focus and an epicenter?**
13. **Which type of wave(s) move through earth’s interior?**
14. **Which is the fastest type of wave?**
15. **Which is the most destructive type of wave that causes the most damage?**
16. **The distance of what two types of waves can be used to calculate distance to epicenter?**
17. **When the distances from three seismograph stations are calculated, three circles can be drawn and the epicenter is where all three \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
18. **What scale is used to measure the intensity of an earthquake?**
19. **Name three things that the amount of damage depends on from earthquakes?**
20. **Can we predict with earthquakes with 100% certainty?**