

Properties of Earth's Interior

Directions: Use page 10 of the ESRTs to answer the following questions.

1. What is the range of density within the outer core? _____
2. What is the thickness of the stiffer mantle? _____
3. What is the temperature at the inner core/outer core boundary? _____
4. What is the pressure at the mantle/outer core boundary? _____
5. As depth increases, temperature _____
6. As depth increases, pressure _____
7. What is the depth of the lithosphere/asthenosphere boundary? _____
8. What is the difference in density between the oceanic crust and the continental crust? _____
9. What two layers does the Moho divide? _____
10. What is another name for the asthenosphere? _____
11. What is another name for the lithosphere? _____
12. At what depth does partial melting of the ultramafic mantle occur? _____
13. At what depth are the melting point and actual temperature both about 6200°C? _____
14. In which layer will you encounter a pressure of 2 atmospheres? _____
15. What is the inner core composed of? _____
16. What is the depth of the center of the Earth? _____
17. What is the name of the mountain range that lies near a trench? _____
18. In which ocean do you find the mid-ocean ridge? _____
19. What is the depth, pressure and temperature where the plastic mantle meets the stiffer mantle?
