**Section 3.3 Unit D pages 91-95 Pressure Depends on Force and Area**

**1. P91 Para 1- What is the definition of pressure?**

**2. P92 Para 1- One way to increase pressure is to increase \_\_\_\_\_\_\_\_\_\_\_\_.**

**3. P92 Para 1- Another way to increase pressure is to decrease \_\_\_\_\_\_\_\_\_\_\_\_.**

**4. P92 Para 2- The 2 ways to express the formula for pressure are?**

**A. B.**

**4. P92 Para 2- The unit of pressure is called the \_\_\_\_\_\_\_\_\_\_.**

**5. P92 Para 2- What is equal to N/m²?**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

***USE THE EXAMPLE ON THE BOTTOM OF THE PAGE TO ANSWER QUESTION #7 SHOW YOUR WORK***

**6. P92 Mr. Crabs made a crabbie patty weighing 400N It covers about 2m² of the floor of the Crusty Crab Restaurant. What pressure does the crabbie patty exert on the floor?**

**7. P93 Para 1- Particles in a fluid are in \_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_ motion.**

**8. P93 Para 2- The pressure exerted by a fluid acts on an object from \_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_.**

**9. P93 LOOK AT THE PICTURE OF THE DIVER**

**How are the water molecules exerting pressure on the diver?**

**10. P94 Para 1- The pressure that a fluid exerts depends on the \_\_\_\_\_\_\_\_\_\_\_ and the \_\_\_\_\_\_\_\_\_\_ of the fluid.**

**11. P94 Para 3- At sea level, air exerts a pressure on you that is equal to about \_\_\_\_\_\_\_\_\_\_\_\_pascals. This pressure is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ and is referred to as \_\_\_\_ atmosphere.**

**12. P94 Para 3- At sea level, every centimeter of your body experiences a force of 10 newtons or \_\_\_\_\_\_\_\_\_lbs.**

**13. P94 Para 3- Imagine climbing a mountain. Air is densest (HEAVIEST) at the \_\_\_\_\_\_\_\_\_\_ of the mountain. Air pressure \_\_\_\_\_\_\_\_\_\_\_\_ as you go up the mountain.**

**14. P95 Para 1- Just as air pressure increases at lower elevations, water pressure increases with greater \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_.**

**15. P95 Para 2- Why does water exert more pressure on you than air?**

**16. P95 Para 3- How have whales adapted to lung collapse as they dive to deep depths of the oceans?**