1. A 17 yr old girl (weighing 105 lbs) was brought into the ER for a rash and fevers. Her temperature was 102.3 and she was prescribed Tylenol 650 mg q4 hours PRN fever. (Round to the nearest tenth)
    a. Calculate the safe dose **range** per dose (10mg/kg/dose – 15mg/kg/dose)?

    b. Is this a safe dose? Why or why not?

    c. What is the safe dose **range** per day?

2. She is prescribed Ceftriaxone 2gm IV daily for possible infectious meningitis. The safe dose range is 50mg/kg/dose – 75 mg/kg/dose. (Round to the nearest tenth)
    a. Calculate the safe dose **range** per **dose**.

    b. Is this an **appropriate** dose? Why or why not?

    c. What is the safe dose **range** per **day**?

3. She is also complaining of a 10/10 headache and is prescribed Dilaudid 4mg q4 hr PRN pain. (Round to the nearest tenth)
    a. Calculate the **safe** dosage in mg (10 mcg/kg/dose).

    b. Is this a safe dose? Why or why not?

    c. What is the **safe mg dose** per day?

4. Your preceptee; did not check with you prior to giving the Dilaudid dose and the patient is now in respiratory depression. You call a rapid response; and the patient then codes. The doctor orders Naloxone. (Round to the nearest tenth)
    a. The initial dose is 0.01mg/kg. What is the **dosage**?

    b. After administering that first dose, the patient remains unresponsive. A second dose of 0.1mg/kg is ordered. What is the **dosage**?

5. The patient recovers after the second dose and you place oxygen 2L via N.C. The doctor places fluid orders for D5 NS + 20KCL. (Round to the nearest tenth)
    a. Calculate her daily fluid requirements.

    b. What is the hourly fluid requirement?

    c. The doctor decides to place her on half the maintenance rate. What is the new hourly rate?