

Pediatric Med Math Practice Quiz 1

Show your calculations

1. A 2-year-old weighs 12 kg. The provider orders acetaminophen 160 mg PO q4 hours PRN for pain. Acetaminophen comes in liquid form of 80 mg/5 mL.
 - a. What volume of liquid will you give each time you administer the prescribed dose?

 - b. If the safe dose range is between 10-15 mg/kg/dose. Is the prescribed does a safe amount to be given in a 24-hour period?

2. A 13-month-old infant weighs 8 kg and is ordered Augmentin 125 mg PO TID. The safe dosage range is 20-40 mg/kg/24 hours.
 - a. Calculate the daily safe range for this child.

 - b. Based on the current order, what is the total amount of Augmentin in mg given in 24 hours?

 - c. Calculate the safe range/dose

 - d. Is the ordered dosage safe for this child?

3. A 3-year-old child weighs 13 kg and is ordered Theophylline 65 mg QID via G-tube. The safe dosage is 22 mg/kg/day. The bottle is labeled 80 mg/15 mL.
 - a. Calculate the safe dosage for this child

 - b. What is the daily dose of Theophylline the child will receive?

- c. How much of the solution should the nurse draw up to be given for each dose? Round to the nearest whole mL

4. A 2 month old weighs 16 lbs. They have Famotidine oral suspension ordered at 0.5 mg/kg once daily. The oral suspension contains 40 mg/5 mL.
 - a. How many mg will be administered per dose? Round to the nearest hundredth

 - b. How many mL will be administered per dose? Round to the nearest hundredth.

5. Calculate the BSA for adolescent who weighs 142 lbs. and is 4 feet 10 inches tall. Round to the nearest hundredth.

6. Calculate the BSA for a child who weighs 13.6 kg and is 90 cm tall.

7. Calculate the daily fluid volume for a 6 kg child.

8. Calculate the daily fluid volume for a 44-pound child.

9. Calculate the daily fluid volume for a child weighing 28 kg