1. 2mL
2. 16 mL/hr
3. 11.2 mL
4. 1400 mL
5. 0.6 mL
6. 3.8 kg
7. 70 mL/hr
8. 40.9 mL
9. 4 mL
10. 400 mL/hr

1. A nurse is preparing to administer furosemide (Lasix) 3 mg/kg/dose PO every 12 hr to an infant who weighs 15 lb. Available is furosemide oral solution 10 mg/ml. How many mL should the nurse administer per dose? (Round the answer to the nearest tenth.)

$15 \div 2.2 \times 3 = \_\_ \div 10 = 2.04\overline{545}$

Do NOT clear calculator

2 mL

2. A nurse is preparing to administer dextrose 5% in water (D5W) 9 ml/kg to infuse over 8 hours to an infant who weighs 14 kg. The nurse should set the pump to deliver how many ml/hr? (round the answer to the nearest whole number.)

$9 mL/14 kg = 126 mL$ total

$126 \div 8 hrs =$ **16 mL/hr**

3. A nurse is preparing to administer ranitidine (Zantac) 8 mg/kg/dose PO every 12 hr to an infant who weighs 46 lb. Available is ranitidine oral solution 15 mg/ml. How many mL should the nurse administer per dose? (Round the answer to the nearest tenth.)

$46 \div 2.2 = 20.90\overline{90}$ kg $\times 8 mg = 167.273$

$\frac{D}{H} \times V \quad \frac{167.273 mg}{15 mg} \times 1 = 11.1515 =$ **11.2 mL**

4. A nurse is caring for an infant who weighs 18 kg. What is the infant's daily maintenance fluid requirement? (Round answer to nearest whole number.)

10 x 100 = 1000
8 x 50 = 400
0 x 20 = 0
1400 mL

5. A nurse is preparing to administer morphine 0.06mg/kg IV bolus to an infant who weighs 5 kg. Available is morphine 0.5 mg/ml injection. How many mL should the nurse administer? (Round the answer to the nearest tenth.)

0.06 mg x 5 kg = 0.3 mg

$\frac{D}{H} \times V$ $\frac{0.3 mg}{0.5 mg} \times 1 mL = 0.6 mL$

6. A nurse is converting an infant's weight in lb and oz to kg. The infant weighs 8 lb 6 oz. How many kg does the infant weigh? (Round the answer to the nearest tenth.)

1 lb = 16 oz
1 kg = 2.2 lbs

$\frac{8.375}{2.2} = 3.8$ kg

6 oz = 0.375 lbs
infant wt = 8.375 lbs

7. A nurse is preparing to administer 0.9% sodium chloride (0.9% NaCl) 20 mL/kg to infuse over 8 hours to a child who weighs 28 kg. The nurse should set the pump to deliver how many ml/hr? (round the answer to the nearest whole number.)

20 mL x 28 kg = 560 mL ÷ 8 hr = 70 mL/hr

8. A nurse is preparing to administer dexamethasone (Decadron) 0.4 mg/kg/day PO divided in equal doses every 12 hr to a school-age child who weighs 45 lb. Available is dexamethasone oral solution 0.5 mg/5 ml. How many mL should the nurse administer per dose? (Round the answer to the nearest whole number.)

45lb ÷ 2.2 = 20.45$\overline{45}$ (don't clear calculator)
→ x 0.4 = 8.18$\overline{18}$ (don't clear) ÷ 2
→ divide by 0.5 then multiply x 5 = 40.9 mL

9. A nurse is preparing to administer clindamycin hydrochloride (Cleocin) 11 mg/kg PO divided in equal doses every 8 hr to a toddler who weighs 32 lb. Available is clindamycin hydrochloride oral solution 75 mg/5 ml. How many mL should the nurse administer per dose? (Round the answer to the nearest whole number.)

4 mL

10. A nurse is preparing to administer 0.9% sodium chloride 300 ml to infuse over 45 min. The nurse should set the IV pump to deliver how many mL/hr? Round to a whole number.

$\frac{300\ mL}{0.75\ hr}$ = 400 mL/hr