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- 1 . An IV will be administered using an infusion pump that delivers mL/hr. Lactated Ringer's (Lactated Ringer's Solution) has been prescribed to run IV at a rate of 95 mL/8 hrs. The IV should infuse at how many mL/hr?
  - 2 . An IV will be administered using an infusion pump that delivers mL/hr. Dextran 40 has been prescribed to run IV at a rate of 500 mL/30 min. The IV should infuse at how many mL/hr?
  - 3 . You need to verify that a prescribed dose of Apresoline (Hydralazine Hydrochloride) for a patient currently weighing 70 lbs is safe. The drug literature recommends a maximum of 7.5 mg/kg/day. The drug is administered in 2 divided doses over a 24-hr period. You determine that a maximum safe dose for this patient would be \_\_\_ mg per dose.
  - 4 . Unipen (Nafcillin Sodium) is available in mg. 0.75 g of Unipen must be prepared. How many mg of Unipen should be prepared?
  - 5 . 1/6 gr of Morphine must be prepared. Morphine is available in mg. How many mg of Morphine should be prepared?
  - 6 . An IV solution contains 25 mg of Nicardipine Hydrochloride. 25 mg of Nicardipine Hydrochloride is equivalent to how many mcg?
  - 7 . 0.15 g of Ritodrine in D5W has been prescribed for IV infusion at a rate of 200 mcg/min. The IV solution has a total volume of 500 mL. The IV should be infused at how many mL per hr?
  - 8 . 1,000 mL of D5 in 0.9% NaCl (5% Dextrose in 0.9% Sodium Chloride) has been prescribed for IV infusion over 4 hrs. You are using an IV administration set that delivers 20 gtts/mL. You run the IV at \_\_\_ gtts/min.
  - 9 . You need to verify that a prescribed dose of Azactam (Aztreonam) for a patient currently weighing 9.6 kg is appropriate. The drug literature recommends 50 mg/kg/dose. You determine that an appropriate dose for this patient would be \_\_\_ mg per dose.
  - 10 . 250 mL of D5 in Lactated Ringer's (5% Dextrose in Lactated Ringer's Solution) has been prescribed for IV infusion over 1 hr. You are using an IV administration set that delivers 15 gtts/mL. You run the IV at \_\_\_ gtts/min.
  - 11 . 1/200 gr of Scopolamine must be prepared. Scopolamine is available in mg. How many mg of Scopolamine should be prepared?

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- 12 . An adult weighs 154 lbs. You determine that 154 lbs is equivalent to \_\_\_ kg.
- 13 . An infant weighs 2400 g. You determine that 2400 g is equivalent to \_\_\_ kg.
- 14 . Acetohexamide is available in mg. 0.125 g of Acetohexamide must be prepared. How many mg of Acetohexamide should be prepared?
- 15 . A child weighs 21 lbs, 10 oz. You determine that 21 lbs, 10 oz is equivalent to \_\_\_ kg.
- 16 . An IV of D5W containing 0.12 g of Lidocaine and a total volume of 100 mL is to be infused at a rate of 1.2 mg/min. At how many mL/hr will you infuse the IV?
- 17 . 20 mg scored tablets of Ritalin are available. How many tablets should be administered if 10 mg of Ritalin is prescribed po?
- 18 . Atropine Sulfate is available in mg. 1/150 gr of Atropine Sulfate must be prepared. How many mg of Atropine Sulfate should be prepared?
- 19 . 1/120 gr of Atropine Sulfate must be prepared. Atropine Sulfate is available in mg. How many mg of Atropine Sulfate should be prepared?
- 20 . An IV solution contains 0.4 g of Dopamine. 0.4 g of Dopamine is equivalent to how many mg?
- 21 . 4 mg of Isuprel (Isoproterenol) in D5W has been prescribed for IV infusion at a rate of 5 mcg/min. The IV solution has a total volume of 500 mL. The IV should be infused at how many mL per hr?
- 22 . A child weighs 27 lbs, 11 oz. You determine that 27 lbs, 11 oz is equivalent to \_\_\_ kg.

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- 23 . Nafcillin has been prescribed for a patient currently weighing 18.6 kg. The drug literature recommends a maximum of 200 mg/kg/day. In checking the appropriateness of the drug order, you determine that \_\_\_ mg of Nafcillin would be a maximum safe dose per day.
- 24 . Velosef (Cephadrine) has been prescribed for a patient currently weighing 82 lbs. The drug literature recommends 25-50 mg/kg/day. In checking the appropriateness of the drug order, you determine that \_\_\_ to \_\_\_ mg of Velosef would be an appropriate dose per day.
- 25 . Asparaginase has been prescribed for a patient currently weighing 14.1 kg. The drug literature recommends 200 units/kg/day. In checking the appropriateness of the drug order, you determine that \_\_\_ units of Asparaginase would be an appropriate dose per day.
- 26 . Atropine Sulfate is available in mg. 1/100 gr of Atropine Sulfate must be prepared. How many mg of Atropine Sulfate should be prepared?
- 27 . You have available an IV administration set that delivers 10 gtts/mL. D5 in Lactated Ringer's (5% Dextrose in Lactated Ringer's Solution) has been prescribed to run IV at a rate of 1,000 mL/10 hrs. The IV should infuse at how many gtts/min?
- 28 . An IV solution contains 0.5 g of Dobutrex (Dobutamine). 0.5 g of Dobutrex is equivalent to how many mg?
- 29 . 1/2 gr of Codeine Phosphate must be prepared. Codeine Phosphate is available in mg. How many mg of Codeine Phosphate should be prepared?
- 30 . You need to verify that a prescribed dose of Bretylol (Bretylum Tosylate) for a patient currently weighing 21.1 kg is appropriate. The drug literature recommends 5 mg/kg/dose. You determine that an appropriate dose for this patient would be \_\_\_ mg per dose.
- 31 . 1,000 mL of D2.5W (2.5% Dextrose in Water) has been prescribed for IV infusion over 12 hrs. You are using an IV administration set that delivers 60 gtts/mL. You run the IV at \_\_\_ gtts/min.
- 32 . An IV of D5W containing 0.5 g of Dobutrex (Dobutamine) and a total volume of 250 mL is to be infused at a rate of 500 mcg/min. At how many mL/hr will you infuse the IV?
- 33 . An IV of D5W containing 20 mg of Primacor (Milrinone Lactate) and a total volume of 100 mL is to be infused at a rate of 20 mcg/min. At how many mL/hr will you infuse the IV?

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- 34 . An IV will be administered using an infusion pump that delivers mL/hr. Lactated Ringer's (Lactated Ringer's Solution) has been prescribed to run IV at a rate of 12 mL/30 min. The IV should infuse at how many mL/hr?
- 35 . Thioguanine has been prescribed for a patient currently weighing 110 lbs. The drug literature recommends 2-3 mg/kg/day. In checking the appropriateness of the drug order, you determine that \_\_\_ to \_\_\_ mg of Thioguanine would be an appropriate dose per day.
- 36 . Codeine Phosphate is available in mg. 1/4 gr of Codeine Phosphate must be prepared. How many mg of Codeine Phosphate should be prepared?
- 37 . A child weighs 29 lbs, 10 oz. You determine that 29 lbs, 10 oz is equivalent to \_\_\_ kg.
- 38 . An infant weighs 12 lbs. You determine that 12 lbs is equivalent to \_\_\_ kg.
- 39 . Sandostatin (Octreotide) is available in mg. 50 mcg of Sandostatin must be prepared. How many mg of Sandostatin should be prepared?
- 40 . An IV of D5W containing 8 mg of Epinephrine and a total volume of 500 mL is to be infused at a rate of 20 mcg/min. At how many mL/hr will you infuse the IV?
- 41 . 0.1 g of Nitroprusside in D5W has been prescribed for IV infusion at a rate of 150 mcg/min. The IV solution has a total volume of 250 mL. The IV should be infused at how many mL per hr?
- 42 . A 1.5 g vial of powdered Unasyn (Ampicillin and Sulbactam) is available. Directions for reconstitution state: Add 3.2 mL of diluent to yield 375 mg in 1 mL. To prepare a dosage of 1.5 g how many mL of Unasyn should you withdraw from the vial after reconstituting the drug as directed?
- 43 . 969 mg of Claforan (Cefotaxime) must be prepared. A 1 g vial of Claforan in powdered form is available. Directions for reconstitution state: Add 10 mL of diluent to yield 95 mg in 1 mL. After reconstituting the drug as directed, how many mL should you withdraw from the vial?
- 44 . Rifampin has been prescribed for a patient currently weighing 82 lbs. The drug literature recommends 10-20 mg/kg/day. In checking the appropriateness of the drug order, you determine that \_\_\_ to \_\_\_ mg of Rifampin would be an appropriate dose per day.

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- 45 . Colchicine is available in mg. 500 mcg of Colchicine must be prepared. How many mg of Colchicine should be prepared?
- 46 . Chlorthalidone is available in 50 mg scored tablets. 25 mg has been prescribed po. You should administer \_\_\_ tablets.
- 47 . An infant weighs 4400 g. You determine that 4400 g is equivalent to \_\_\_ kg.
- 48 . An IV of D5W containing 8 mg of Levophed (Norepinephrine Bitartrate) and a total volume of 250 mL is to be infused at a rate of 5 mcg/min. At how many mL/hr will you infuse the IV?
- 49 . An IV solution contains 0.1 g of Nitroglycerin. 0.1 g of Nitroglycerin is equivalent to how many mg?
- 50 . 500 mg of Chlorpromazine has been prescribed po. The Chlorpromazine is available in liquid form labeled 100 mg in 1 mL. You should administer \_\_\_ mL of the Chlorpromazine.
- 51 . 1 gr of Codeine Phosphate must be prepared. Codeine Phosphate is available in mg. How many mg of Codeine Phosphate should be prepared?
- 52 . An IV will be administered using an infusion pump that delivers mL/hr. D2.5W (2.5% Dextrose in Water) has been prescribed to run IV at a rate of 500 mL/8 hrs. The IV should infuse at how many mL/hr?
- 53 . 20 mg of liquid Imuran (Azathioprine) has been prescribed po. How many mL should you administer if the Imuran is available in a strength labeled 5 mg in 1 mL?
- 54 . 165 mg of Aminophylline must be prepared. How many mL should be prepared using a 10 mL ampule labeled 25 mg in 1 mL?
- 55 . An IV will be administered using an infusion pump that delivers mL/hr. 0.9% NaCl (0.9% Sodium Chloride) has been prescribed to run IV at a rate of 30 mL/30 min. The IV should infuse at how many mL/hr?

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- 56 . 750 mg of Capastat Sulfate (Capreomycin Sulfate) must be prepared. How many mL should be prepared using a 10 mL ampule labeled 100 mg in 1 mL?
- 57 . An IV will be administered using an infusion pump that delivers mL/hr. D5 in 0.9% NaCl (5% Dextrose in 0.9% Sodium Chloride) has been prescribed to run IV at a rate of 11 mL/30 min. The IV should infuse at how many mL/hr?
- 58 . An IV will be administered using an infusion pump that delivers mL/hr. D5 in Lactated Ringer's (5% Dextrose in Lactated Ringer's Solution) has been prescribed to run IV at a rate of 130 mL/4 hrs. The IV should infuse at how many mL/hr?
- 59 . A child weighs 28 lbs, 2 oz. You determine that 28 lbs, 2 oz is equivalent to \_\_\_ kg.
- 60 . An IV will be administered using an infusion pump that delivers mL/hr. 0.9% NaCl (0.9% Sodium Chloride) has been prescribed to run IV at a rate of 1,000 mL/24 hrs. The IV should infuse at how many mL/hr?
- 61 . You have available an IV administration set that delivers 15 gtts/mL. D2.5W (2.5% Dextrose in Water) has been prescribed to run IV at a rate of 1,000 mL/6 hrs. The IV should infuse at how many gtts/min?
- 62 . You have available an IV administration set that delivers 15 gtts/mL. D5 in 0.45% NaCl (5% Dextrose in 0.45% Sodium Chloride) has been prescribed to run IV at a rate of 300 mL/1 hr. The IV should infuse at how many gtts/min?
- 63 . You have available an IV administration set that delivers 15 gtts/mL. Lactated Ringer's (Lactated Ringer's Solution) has been prescribed to run IV at a rate of 1,000 mL/10 hrs. The IV should infuse at how many gtts/min?
- 64 . 1,000 mL of D5W (5% Dextrose in Water) has been prescribed for IV infusion over 24 hrs. You are using an IV administration set that delivers 60 gtts/mL. You run the IV at \_\_\_ gtts/min.

## Answer Key

- 1 . 12
- 2 . 1,000
- 3 . 119
- 4 . 750
- 5 . 10
- 6 . 25,000
- 7 . 40
- 8 . 83
- 9 . 480
- 10 . 63
- 11 . 0.3
- 12 . 70
- 13 . 2.4
- 14 . 125
- 15 . 9.8
- 16 . 60
- 17 . 0.5
- 18 . 0.4
- 19 . 0.5
- 20 . 400
- 21 . 38
- 22 . 12.6
- 23 . 3,720
- 24 . 933; 1,865
- 25 . 2,820
- 26 . 0.6
- 27 . 17
- 28 . 500
- 29 . 30
- 30 . 106
- 31 . 83
- 32 . 15
- 33 . 6
- 34 . 24
- 35 . 100; 150
- 36 . 15
- 37 . 13.5
- 38 . 5.5
- 39 . 0.05
- 40 . 75

## Answer Key

- 41 . 23
- 42 . 4
- 43 . 10.2
- 44 . 373; 746
- 45 . 0.5
- 46 . 0.5
- 47 . 4.4
- 48 . 9.4
- 49 . 100
- 50 . 5
- 51 . 60
- 52 . 63
- 53 . 4
- 54 . 6.6
- 55 . 60
- 56 . 7.5
- 57 . 22
- 58 . 33
- 59 . 12.8
- 60 . 42
- 61 . 42
- 62 . 75
- 63 . 25
- 64 . 42