Basic Math Ability Exam A Relias

The physician has written an order for a medication, 3,000 units to be given SQ. You have on hand 5,000 units/mL. You will administer _____mL. - Correct Answer - 3000/5000 *1

= 0.6mL

The surgeon orders for 75 mg of a medication to be given IV push. The medication is available in a concentration of 125 mg/2 mL. You will administer ____mL to the patient. (record your answer using one decimal place) - Correct Answer - 1.2

The sliding scale order states: [FORMULA: (BG-100)÷30]= number of units of insulin to be given. At 1600 the patient's blood glucose is 150. You will administer _____ units of insulin (round to the nearest whole number). - Correct Answer - 150-100/30

=1.66

rounded to nearest whole number = 2

Your patient's blood glucose is 302 mg/dL. The sliding scale order is to administer insulin using this formula: [FORMULA: (BG-100)÷40]= number of units to administer. Based upon your patient's glucose, you should administer ____ units of insulin. (round to the nearest whole number) - Correct Answer - 302-100/40

=5.05

rounded = 5

The physician has ordered a medication to be given 0.05 mg/kg/day in 1,000 mL of fluid. The patient weighs 246 lbs. The dose added to the 1,000 mL bag of fluid should be _____ mg. (round your answer to one decimal place) - Correct Answer - 0.05*111.5 (the weight in kg)

= 5.575mg a day

=5.6

The surgeon orders a medication 1.5 gms IV. The pharmacy delivers the medication as 1.5 grams in 150 mL IV solution to be infused over 90 minutes. The rate of the infusion is____mL/hr. - Correct Answer - 100

The physician orders for 1 liter of IV fluid to be given over 6 hours. The available tubing set delivers 15 gtts/mL. After your calculation, the set should be calibrated to deliver _____ gtts/min. (round to the nearest whole number) - Correct Answer - https://www.mdcalc.com/iv-drip-rate-calculator

=42

Your patient's blood sugar is 201 mg/dL. The sliding scale insulin order says to use the following formula to calculate the number of units to administer: [FORMULA: (BG-100)÷30+10]= number of units to administer. Based upon your patient's blood sugar, the nurse should administer ____units of insulin.(round to the nearest whole number) - Correct Answer - 13

The patient is to receive 1,000 mL of IVF over 8 hours. The IV set delivers 15 gtts/mL. The drip rate will be _____gtts/min.(round to the nearest whole number) - Correct Answer - 31