



CLOSE

Time Spent: 00:01:25

Calculator

Case studies

7/10/XX	IV infusion		
7/10/XX	Heparin 18 units/kg/hr by continuous IV infusion.		
7/10/XX	Nitroglycerin 12 mcg/min by continuous IV infusion.		
	Titrate per protocol.		
	Signature	Date	

A nurse is converting a client's weight from pounds to kilograms. What is the client's weight in kilograms?
(Review the MAR. Round the answer to the nearest tenth.)

79.1

Step 1
What is the unit of measurement the nurse should calculate? (Place the unit of measure being calculated on the left side of the equation.)
X kg =

Step 2
Find the ratio in the item that contains the same unit as the unit being calculated. (Place the ratio on the right side of the equation, ensuring



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Step 6
Determine if the equivalent makes sense.
If 1 kg equals 2.2 lb, it makes sense that 174 lb equals 79.1 kg.

A nurse is calculating a dosage of heparin. Available is heparin 25,000 units in 0.9% NaCl 500 mL. The nurse should set the IV pump to deliver how many mL/hr?
(Review the MAR. Round the answer to the nearest tenth.)

28.5

Step 1
What is the unit of measurement the nurse should calculate? (Place the unit of measure being calculated on the left side of the equation.)
X mL/hr =

Step 2



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Step 6
Determine if the amount to administer makes sense.
If there are 25,000 units/500 mL and the prescribed amount is 18 units/kg/hr, it makes sense to administer 28.5 mL/hr. The nurse should set the IV pump to deliver heparin at 28.5 mL/hr.

A nurse is calculating a dosage of nitroglycerin. Available is nitroglycerin 25 mg in D₅W 250 mL. The nurse should set the IV pump to deliver how many mL/hr?
(Review the MAR. Round the answer to the nearest tenth.)

7.2

Step 1
What is the unit of measurement the nurse should calculate? (Place the unit of measure being calculated on the left side of the equation.)
X mL/hr =



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to deliver nitroglycerin at 7.2 mL/hr.

A nurse is preparing to increase the dosage of nitroglycerin by 5 mcg. The nurse should set the IV pump to deliver how many mL/hr?
(Review the MAR. Round the answer to the nearest tenth.)

10.2

Step 1
What is the unit of measurement the nurse should calculate? (Place the unit of measure being calculated on the left side of the equation.)
X mL/hr =

Step 2
What is the desired dose?
12 mcg + 5 mcg = 17 mcg



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If there are 25 mg/250 mL and the prescribed amount is 17 mcg /min, it makes sense to administer 10.2 mL/hr. The nurse should set the IV pump to deliver nitroglycerin at 10.2 mL/hr.

A nurse is calculating the flow rate for D₅W fluid bolus. How many mL/hr should the nurse administer?
(Review the MAR. Round the answer to the nearest whole number.)

250

Step 1
What is the unit of measurement the nurse should calculate? (Place the unit of measure being calculated on the left side of the equation.)
X mL/hr =

Step 2
Find the ratio in the item that contains the same unit as the unit being calculated. (Place the ratio on the right side of the equation, ensuring that the unit in the numerator matches the unit being calculated.)



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Case studies

A nurse is calculating the dosage of labetalol. How many milliliters should the nurse administer?
(Review the MAR and medication label. Round the answer to the nearest whole number.)



4

Step 1
What is the unit of measurement the nurse should calculate? (Place the unit of measure being calculated on the left side of the equation.)