

Chem!stry

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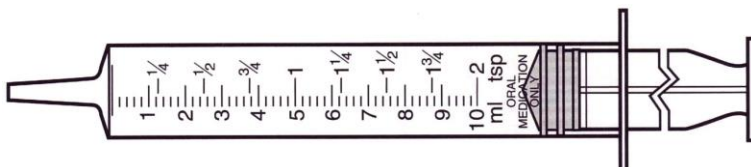
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Drug Calculations

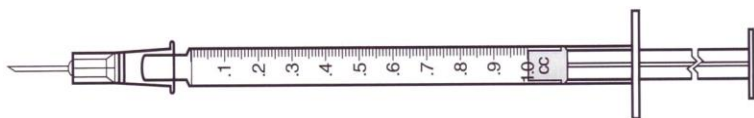
Question 1:

A seven year-old girl, weighing 18.8 kg, is in severe pain after falling from her bicycle and suffering a compound fracture to her left ulna and radius. She is prescribed 0.3 mg kg^{-1} morphine sulphate, to be taken orally every four hours. What volume of the morphine sulphate oral solution will you administer to her in a single dose?



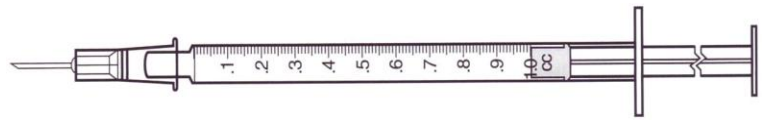
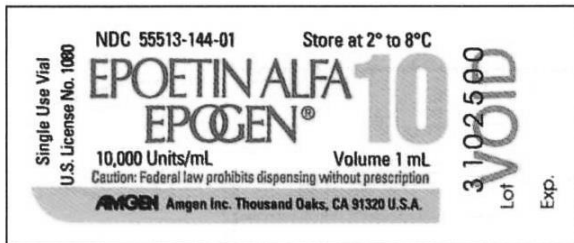
Question 2:

A 70.0 kg adult male requires 6 mcg kg^{-1} of Filgrastim to be administered to stimulate the production of neutrophils, secondary to chemotherapy. What volume of Filgrastim will you administer to the patient by intravenous injection?



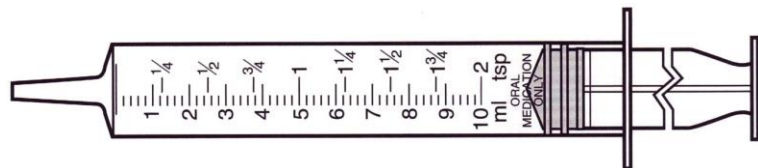
Question 3:

An 80.0 kg adult male requires 120 units kg^{-1} of Epogen to be administered for anaemia, secondary to chemotherapy. What volume of Epogen will you administer to the patient by intravenous injection?



Question 4:

An 42.0 kg female requires 10 mcg kg^{-1} of Digoxin to be administered every eight hours to combat heart failure. What volume of Digoxin will you administer to the patient orally?



Question 5:

A 81.0 kg male requires 5 mg kg^{-1} Clindamycin phosphate to be administered every day, equally divided into three doses, to combat a respiratory tract infection. What volume of Clindamycin will you administer to the patient by intravenous infusion each time?

