

Additional calculation questions

 George weighs 68 kg and requires drug H at a dose of 3 mg/kg per day in four divided doses. Drug H is available as 10 mg capsules. What is the total daily amount of drug H ideally required by George and how many capsules would he take for each dose in practice?

A 204 mg and 15 capsules

B 204 mg and 5 capsules

C 200 mg and 5 capsules

D 105 mg and 5 capsules

E 105 mg and 10 capsules

2. YHR pharmaceuticals produces a batch of compressed tablets every fortnight containing 450 mg active ingredient with a mean tablet weight of 0.9 g. Which of the following is the weight of active ingredient that will be required for a total batch size of 6000 kg?

A 6000 kg B 4000 kg C 3000 kg

D 2500 kg E 1800 kg

3. You have in your pharmacy an unopened 30 g tube of Locoid Lipocream (hydrocortisone butyrate 0.1%). Which of the following is the amount of Lipobase cream required for diluting 10 g Locoid Lipocream to a concentration of 0.0025% hydrocortisone butyrate?



An ointment has the following formula:

Sulphur 4 %w/w

Salicylic acid 10 %w/w

Yellow Soft Paraffin, BP to 100 %w/w



ution factor = Initial conch final conch = 011 = 40 0.00257. . Original cream muit be diluted toge - 1 part 10 coid lipo croam - 39 parts Lipobase cream Quantity of lipobase cream required = 39 × 10g = 390 g

- Number of tablets - Number of tablets

mount required of active ingradient v - when concentration dresper Solution 10 make Certain ume a sel tion examp C 0.8 g C 3.5 tablets D 1.2 g D 4 tablets E 4.5 tablets E 1.8 g of triclosan, what volume is required to make 250 mL of a 2% w/v 8. If 1200 mg potassium permanganate is dissolved in 4 L water, what is the percentage strength of 12. Giv the resulting solution? solutio A 20 mL A 0.003% B 40 mL B 0.015% C 0.03% C 80 mL D 0 15% D 100 mL F 0.3% E 140 mL ection dose of gentamicin for the treatment of septicaemia for 9. The reco 13. The formula for 100 tablets is: a child aged between 1 month and 12 years is 2.5 mg/kg every 8 h. What volume of gentamicin 40 Paracetamol 50 g mg/mL should be given every 8 h to a 10-year-old girl weighing 30 kg? Codeine hemihydrate 800 mg A 2.5 ml Caffeine 3 g B 2.225 mL Lactose 20 g C 2.0 ml Which of the following is/are correct? D 1.875 ml 1. 16 tablets contain 0.128 g codeine hemihydrate. E 1 7 ml 2. A patient taking two tablets four times daily for 3 days ingests 4.8 g lactose from these tablets. 10. A 1 in 5000 solution of copper sulphate contains which of the following concentrations 3. 32 tablets contain 960 mg caffeine. A 50 mg copper sulphate in 500 mL solution 14. Which of the following is/are correct? B 20 mg copper sulphate in 100 mL solution 1. In order to make 300 g of 2.5% w/w calamine in emulsifying ointment BP, 7.5 g calamine are C 5 mg copper sulphate in 500 mL solution 0 required. 01 D 100 mg copper sulphate in 1000 mL solution 2. 250 mL of a 1.14% w/v solution of povidone-iodine contains 2.85 g of the drug. E 50 mg copper sulphate in 300 mL solution 3. 4 × 250 mg nitrazepam tablets will be required to make 100 mL of a 50 mg/5 mL nitrazepam is required to make 20 mL of a stock 11. Which of the following amounts of chlorhexidine gluconate suspension. Solubor solution, such that, when the stock solution is diluted 30 times with water, a final solution of 0.2% w/v chlorhexidine gluconate is produced? Thon A 0.2 g Work backwards 50 V IN1 nl 11 Stock solution Strength needed: 2 1 Grad 2.5 · 0-27. WIV = 0-2 g chlothesineine 250 ml SO guiconate in 100ml sometron. eaded - with buy by 30 to dosar give the concentration of the 100 pordors 12 5 ongraal stock souldier 50 100 m E 57. WIN thicksan WE veed o.f 67. WIV Ð Final ne armannts of chlorhevidine stuconoile in the Sterting w/ 20 ml stock so (ukron. in 100 ml aparton . 20/100 = 0-2 × 6 g = 1.2 g of chlorhexidence gluconarle.