Some IV drips and drug calculations

1. Joey is a 10kg boy charted IV Amoxycillin 7.5 mg/kg. You have 250 mg vials that when reconstituted give you 250 mg in 5 ml. How many ml do you give Joey?

2. 1 litre of 0.9% Normal Saline is prescribed over 4 hours. Using a metriset (60 drops / ml) how many drops per minute would you give?

3. A 1000 ml bag of dextrose saline with 20 mmols of KCL is discontinued when 300 ml of the infusion has been administered. How many KCL has been infused?

4. You are to administer 120 mg of IV frusemide. You have 20 mg in 2 ml. How many ml will you give?

5. A 300 ml unit of blood is charted, to be given over 2 hours. Using a blood administration set (10 drops / ml), you will set your drop rate at?

6. The recommended Paracetamol dose for paediatric patients is 60 mg /kg / day. Tom is 12 kg, how much Paracetamol is he allowed in 24 hours?

7. You are given a verbal order for hydrocortisone 120 mg for a blood reaction. You have hydrocortisone 250 mg/2ml. How many ml will you give?

8. Your 75 kg patient is charted Heparin 120 iu/kg. You have 5000 iu/ml. How many ml will you give?

Answers

1. 1.5 ml
2. 250 drops/min
3. 6 mmols
4. 12 ml
5. 25 drops/min
6. 720 mg
7. 0.96 ml
8. 1.8 ml