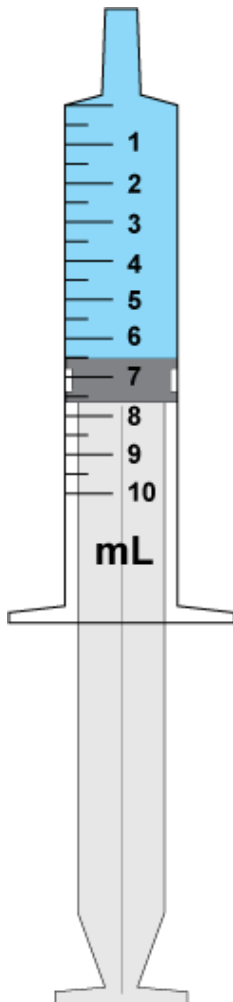


**Test of Competence 2021:**  
**Practice Paper 1 (Numeracy)**  
**Adult Nursing**  
**EU Aptitude Test**

## Part 1: Measuring the correct dose



*Figure 1 Syringe with fluid.*

**Q1.** What is the volume that has been drawn up into the syringe?

Answer =     **6.5 mL**    



*Figure 2 Medicine cup for liquid medication*

**Q2.** What is the volume that has been dispensed?

Answer =     **20 mL**

## Part 2: Metric units

**Q3.** A patient has been prescribed 2 L of 0.9% sodium chloride.

What is the volume in mL?

Answer = 2000 mL

**Q4.** A patient has been prescribed 0.6 g of ibuprofen.

What is the dose in mg?

Answer = 600 mg

## Part 3: Oral medications

**Q5.** A patient has been prescribed 300 mg of phenytoin.

How many tablets should be administered?

3 tablet(s)

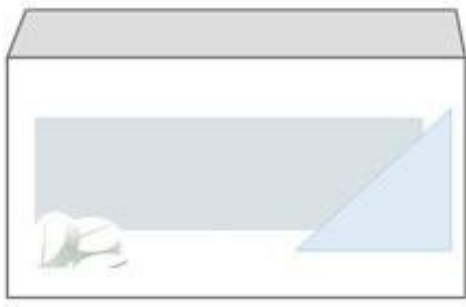
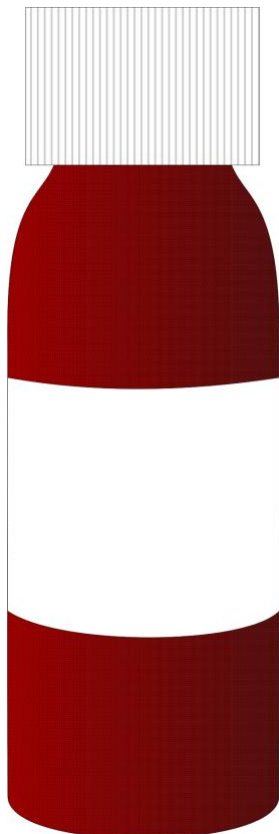


Figure 3 Box of tablets.

Phenytoin  
100 mg tablets



*Figure 4 Liquid medication bottle*

**Q6.** A patient has been prescribed 1 g of carbocisteine solution.

What volume should be administered?

**25 mL**

Carbocisteine  
solution  
200 mg/5 mL



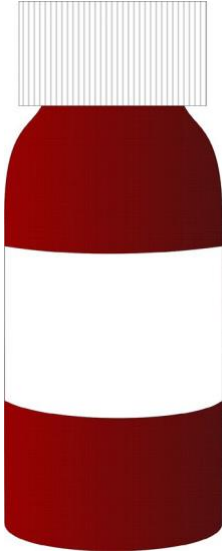
*Figure 5 Liquid medication bottle.*

**Q7.** A patient has been prescribed 100 mg of phenytoin suspension.

What volume should be administered?

    **2 mL**    

Phenytoin  
suspension  
250 mg/5 mL



*Figure 6 Liquid medication bottle*

**Q8.** A patient has been prescribed levetiracetam suspension at a dose of 10 mg/kg. The patient weighs 70 kg.

What volume should be administered?

**7 mL**

Levetiracetam  
suspension  
100 mg/1 mL

## **Part 4: Injections**

Flupentixol decanoate 20 mg in 1 mL

**Q9.** A patient has been prescribed 60 mg of flupentixol decanoate.

What volume should be drawn up for the injection?



**3 mL**

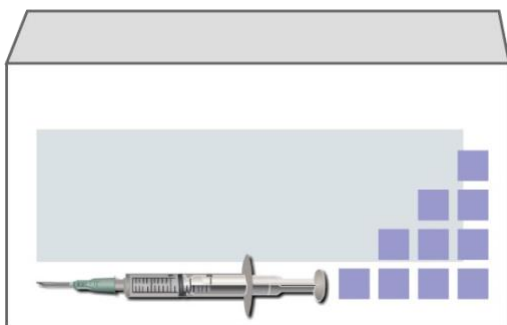


Figure 7 Syringe and needle

**Q10.** A patient has been prescribed 4 mg of diamorphine hydrochloride.

What volume should be drawn up for the injection?

**0.8 mL**

Diamorphine hydrochloride  
5 mg in 1 mL

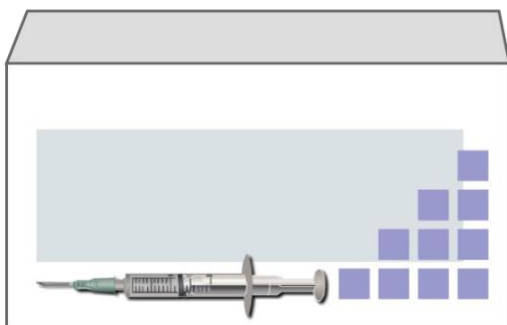


Figure 8 Syringe and needle

**Q11.** A patient has been prescribed pethidine hydrochloride at a dose of 0.5 mg/kg. Your patient weighs 90 kg.

What volume should be drawn up for the injection?

**\_\_\_0.9 mL\_\_\_**

Pethidine hydrochloride  
50 mg in 1 mL

## Part 5: Intravenous infusions

**Q12.**

Prescription						
Date	Route	Infusion fluid	Vol. (mL)	Duration	Time start	Prescriber's signature
26/03/20	I.V.	0.9% sodium chloride	400	5 hours	0800	D. McCormick

At what rate would you set the infusion pump to run? **\_\_\_80\_\_\_ mL per hour**

**Q13.**

Prescription						
Date	Route	Infusion fluid	Vol. (mL)	Duration	Time start	Prescriber's signature
26/03/20	I.V.	5% glucose	1000	6 hours	0800	D. McCormick

At what rate would you set the infusion pump to run? **\_\_\_167\_\_\_ mL per hour**

*Give your answer to the nearest whole number.*

**Q14.**

Prescription						
Date	Route	Infusion fluid	Vol. (mL)	Duration	Time start	Prescriber's signature
26/03/20	I.V.	Whole blood	800	5 hours	0800	D. McCormick

At what rate would you set the infusion pump to run? **\_\_\_160\_\_\_ mL per hour**

## Part 6: Fluid balance charts

Complete the following fluid balance chart to calculate whether the patient has gained or lost fluid over a 24-hour period.

If the patient has gained fluid you should include '+' before your balance answer, e.g. +100 mL. If the patient has lost fluid you should include '-' before your balance answer, e.g. -100 mL.

### Q15.

Patient's name: <u>Jack Jones</u> Hospital number: <u>3861050</u> Chart number: <u>1</u>							
IV Fluid type and rate: <u>500 mL 0.9% sodium chloride 125 mLs/hour</u> Date: <u>26/03/20</u>							
Ward: <u>G7</u>							
Time	Input			Output			
	Oral (mL)	Intravenous infusion (mL/hour)	Total (mL)	Urine (mL)	Aspirate/vomit (mL)	Other (mL)	Total (mL)
0100							
0200							
0300							
0400							
0500							
0600		125					
0700		125					
0800	100	125		140			
0900		125					
1000							
1100							
1200	100						
1300				180			
1400					80		
1500							
1600	150						
1700							
1800		125		200			
1900		125					
2000							
2100	150						
2200				310			
2300							
2400							

EUAT\_Adult\_practice\_paper\_1\_Answers

<b>Total onput</b>	<b>1250 mL</b>
<b>Total output</b>	<b>910 mL</b>
<b>Balance</b>	<b>+340 mL</b>