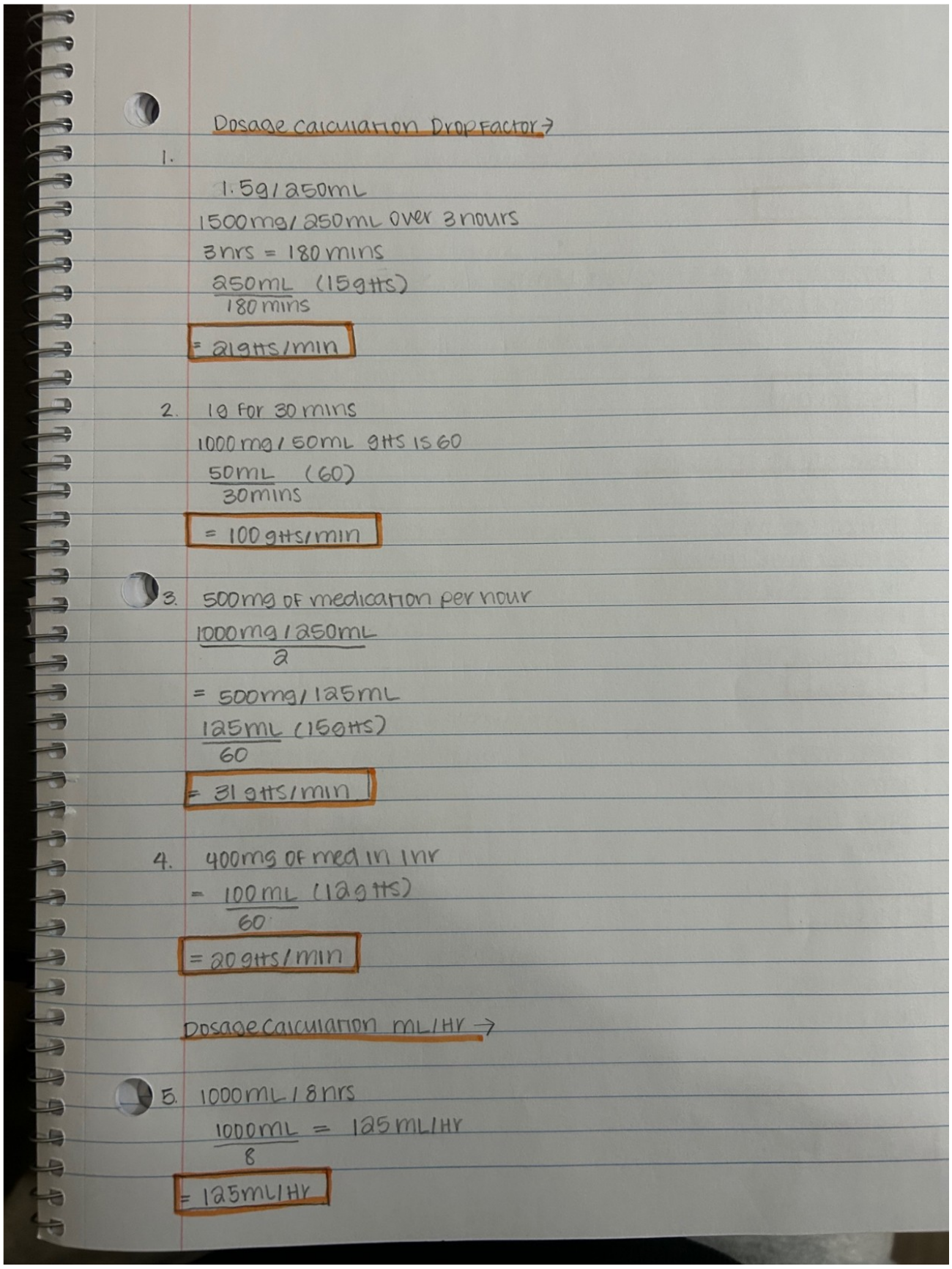
IM 7 Dosage Calculation Worksheet 20 questions – Jovana Suarez



Dosage calculation Drop Factor →

1.

1.5g / 250mL

1500mg / 250mL over 3 hours

3 hrs = 180 mins

$\frac{250mL \quad (15 gtts)}{180 mins}$

= 21 gtts/min

2. 10 for 30 mins

1000mg / 50mL gtts is 60

$\frac{50mL \quad (60)}{30 mins}$

= 100 gtts/min

3. 500mg of medication per hour

$\frac{1000mg / 250mL}{2}$

= 500mg / 125mL

$\frac{125mL \quad (15 gtts)}{60}$

= 31 gtts/min

4. 400mg of med in 1 hr

$= \frac{100mL \quad (12 gtts)}{60}$

= 20 gtts/min

Dosage Calculation mL/Hr →

5. 1000mL / 8 hrs

$\frac{1000mL}{8} = 125mL/Hr$

= 125mL/Hr

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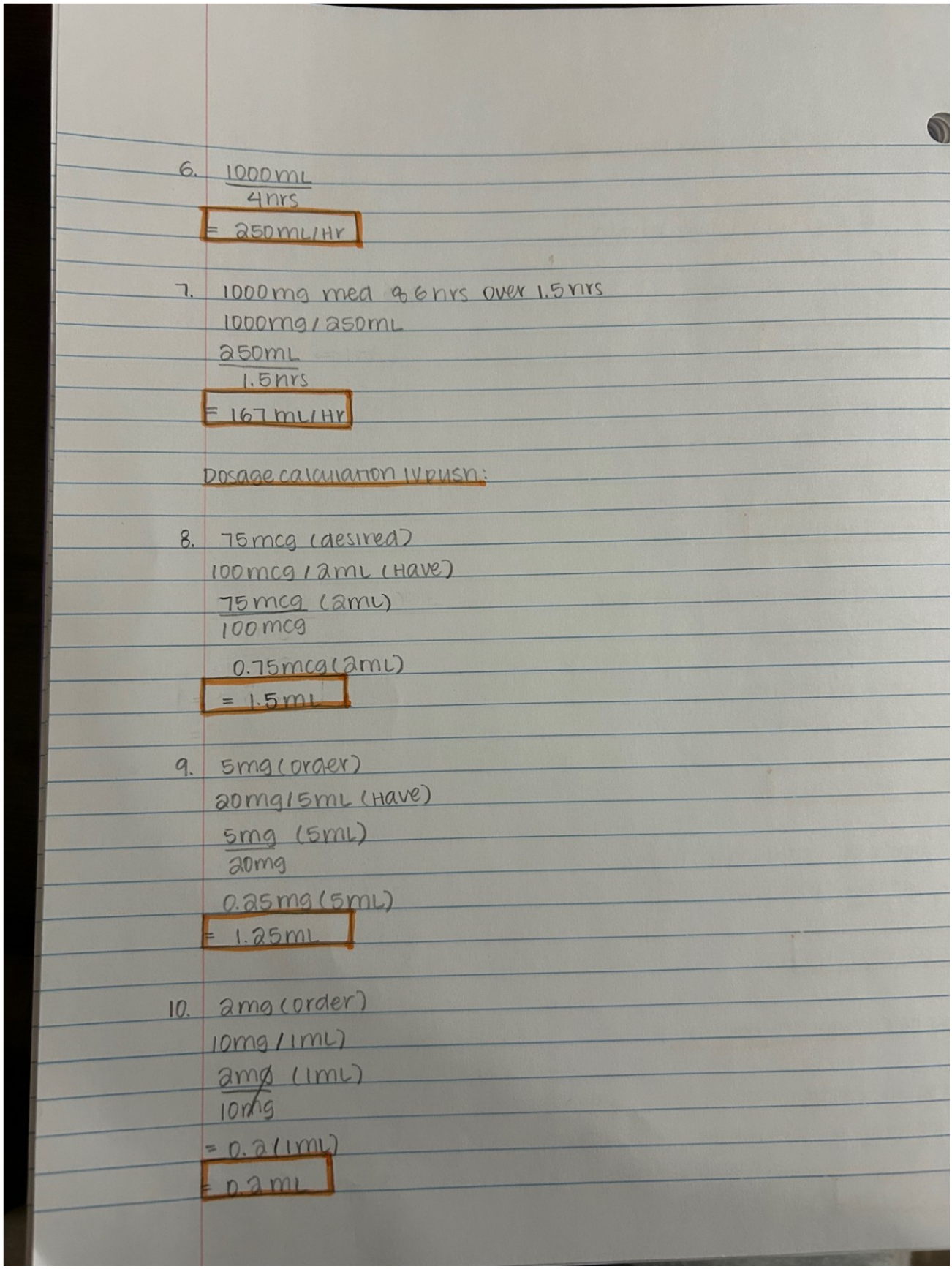

6. 1000mL / 4hrs
= 250mL/Hr

7. 1000mg med q 6hrs over 1.5hrs
1000mg / 250mL
250mL / 1.5hrs
= 167mL/Hr

Dosage calculation IV push:

8. 75mcg (desired)
100mcg / 2mL (Have)
75mcg (2mL) / 100mcg
0.75mcg(2mL)
= 1.5mL

9. 5mg (order)
20mg/5mL (Have)
5mg (5mL) / 20mg
0.25mg(5mL)
= 1.25mL

10. 2mg (order)
10mg / 1mL)
2mg (1mL) / 10mg
= 0.2(1mL)
= 0.2mL

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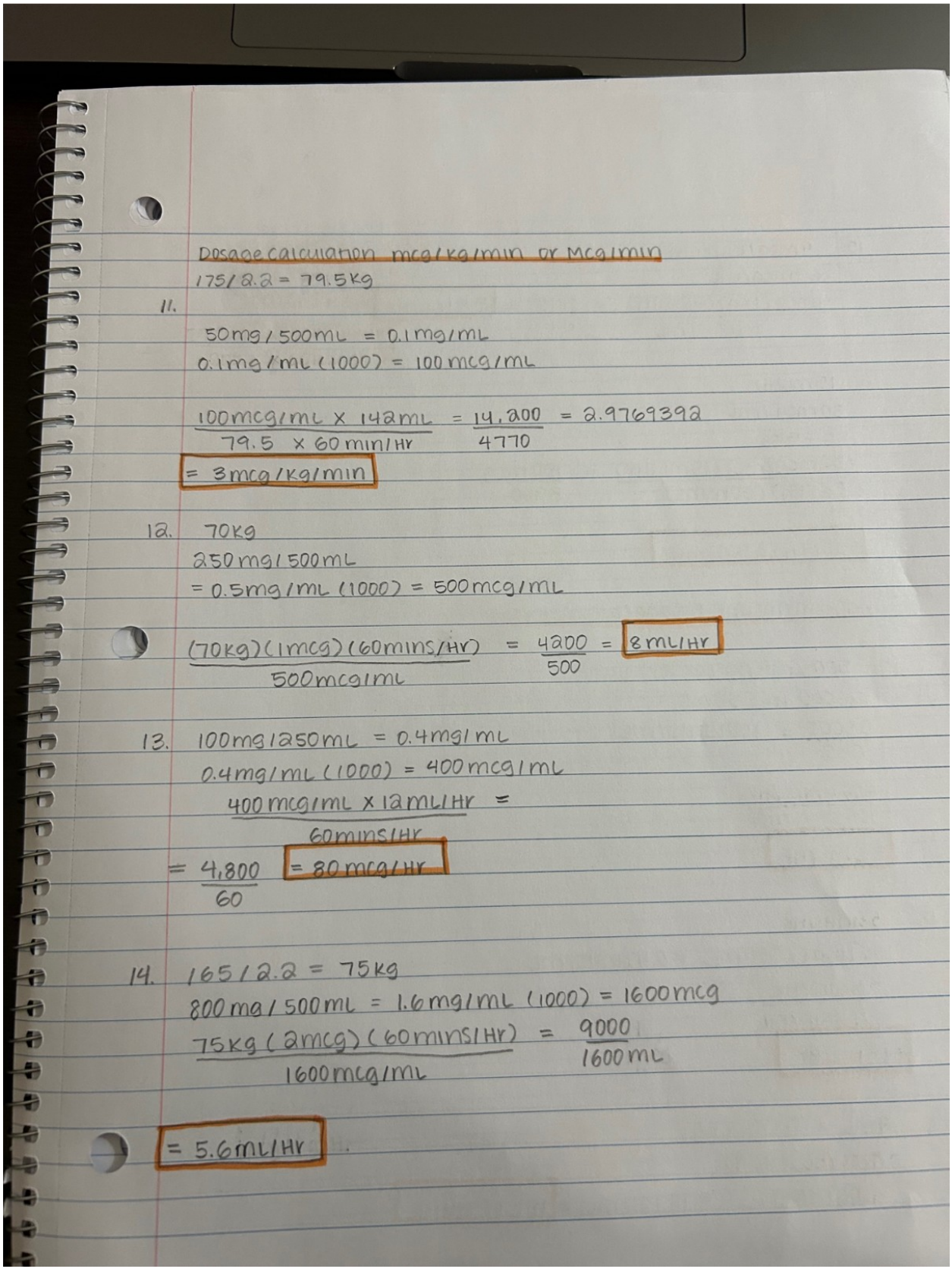

Dosage calculation mcg/kg/min or Mcg/min

175/2.2 = 79.5kg

11.

50mg/500mL = 0.1mg/mL

0.1mg/mL (1000) = 100mcg/mL

$$\frac{100\text{mcg/mL} \times 142\text{mL}}{79.5 \times 60\text{ min/Hr}} = \frac{14,200}{4770} = 2.9769392$$

= 3mcg/kg/min

12. 70kg

250mg/500mL

= 0.5mg/mL (1000) = 500mcg/mL

$$\frac{(70\text{kg})(1\text{mcg})(60\text{mins/Hr})}{500\text{mcg/mL}} = \frac{4200}{500} = 8\text{mL/Hr}$$

13. 100mg/250mL = 0.4mg/mL

0.4mg/mL (1000) = 400mcg/mL

$$\frac{400\text{mcg/mL} \times 12\text{mL/Hr}}{60\text{mins/Hr}} = \frac{4,800}{60} = 80\text{mcg/Hr}$$

14. 165/2.2 = 75kg

800mg/500mL = 1.6mg/mL (1000) = 1600mcg

$$\frac{75\text{kg}(2\text{mcg})(60\text{mins/Hr})}{1600\text{mcg/mL}} = \frac{9000}{1600\text{mL}}$$

= 5.6mL/Hr

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15. 4mcg/kg/min
64mcg/mL
$\frac{4mcg\,(1kg)(60min)}{64mcg/mL} = \frac{240}{64} =$ 3.8mL/Hr

16. 15mL/Hr
50mcg/mL
pt. 65kg
$\frac{(50mcg/mL)(15mL/Hr)}{(65kg)(60mins)} = \frac{750mcg}{3900}$

= 0.19mcg/kg/min

Heparin/Insulin Dosage calculations

17. 500 units/Hr (order)
25,000 in 250mL
$\frac{25000}{250} =$ 100 units/mL

$\frac{500\ units/Hr}{100\ units/mL}$

= 5mL/Hr

18. 5units/Hr
100 units / 250mL = 0.4 units/mL
$\frac{5\ units/Hr}{0.4\ units/mL}$
= 13mL/Hr

19. 4mL x TBSA x kg
4mL (50)(90.9)
200(90.9) = 18,182mL = 18L of fluid

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