

Question 4

Dashboard > MC10704 > Calculations > Calculations Practice Quiz 3

Question 1

Not complete

Marked out of 1.00

A product is to be prepared so that each 5 ml contains 10 mg of morphine. What volume of Tincture of Opium is required for the preparation of 2 litres of the product?

Tincture of Opium contains 1% morphine.

Select one:

- ☒ 400ml
☐ 480ml
☐ 275ml
☐ 350ml
☐ 200ml

Check

Question 2

Not complete

Marked out of 1.00

The recommended intravenous dose for gentamicin (an antibiotic) is 7.5 mg/kg daily given as 3 divided doses. Based on this information, how much gentamicin ampoule (containing 80mg/2ml of gentamicin) should be administered to a 5 year old weighing 18 kg?

Select one:

- ☒ 1.125ml
☐ 1.25ml
☐ 0.967ml
☐ 0.345ml
☐ 2.25ml

Check

Question 3

Not complete

Marked out of 1.00

If 25 g of an ointment containing 8% of zinc oxide in white soft paraffin is mixed with 55 g of an ointment containing 15% zinc oxide and 10% calamine in white soft paraffin, what is the final concentration of zinc oxide?

Select one:

- ☐ 16.8%
☐ 6.4%
☐ 10.6%
☐ 4%
☒ 12.8%

Check

5ml contains:
 = 10mg of morphine.
 What volume of
 tincture of opium
 is required for
 prep of 2L
 product?

Tincture is
 1g / 100ml
 1g = 1000mg
 1000mg / 100ml = 10mg/ml
 10mg / 0.01g = 1ml
 = 400ml

2000ml
 5
 = 400 x 10mg
 = 4000mg
 required
 in 2000ml
 = 4mg

7.5 mg/kg daily 3 divided doses

7.5 x 18kg = 135mg
 40mg/ml (80mg/2ml)
 = 3.375ml
 3 doses
 = 1.125ml for
 each dose.

→ 25g - 8% zinc oxide
 0.08g in 1g x 25
 = 2g in 25g.

→ 55g - 15% zinc oxide & 10% calamine
 0.15g in 1g x 55
 = 8.25g in 55g.

Final concentration of zinc?

= 2g + 8.25g = 10.25g in 80g
 = 0.128125 x 100
 = 12.8125% w/w

be okay w/ small loss
I expect it but overall picture

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The molecular weights of $MgCl_2 \cdot 6H_2O$ and KCl are 203.3 and 74.5, respectively.

Select one:

- ☐ 3253mg
☐ 2440mg
☒ 1584mg
☐ 3904mg
☐ 813mg

Check

You have 200ml of a solution containing 2.4% KCl .
how much magnesium chloride should be added to this solution
such that when water is added to a final volume
of 500ml, the concn of chloride is 160 mmol/L?
- every detail matters

Initial = have soln: vol = 200 ml - concn = 2.4% KCl

Final = vol = 500ml

people want you to be dumb & reckless so they can take advantage of the smart & disciplined align myself w/ karma - save about 20% - Intern business program

Question 5
Not complete
Marked out of 1.00

What volume of a solution containing adrenaline at a concentration of 1 in 1000 is required for the preparation of 100 ml of a solution containing adrenaline 1 in 50,000?

Select one:

- ☐ 2.5ml
☐ 1ml
☐ 5ml
☐ 0.5ml
☒ 2ml

Check

Observe surroundings 21/7
Use animal instinct
Think before acting
Read the prince

be honest, lying is cheating with off no where
 $V_1 = 100$ ml
 $C_2 = 1$ in 50,000
 $= 0.002\%$

$$C_1 V_1 = C_2 V_2$$

$$V_1 = \frac{0.002 \times 100}{0.1}$$

$$= 2 \text{ ml}$$

do not let comment things slide too nice
Preparation & organization is everything
- Create value you can't get something for nothing
- delay the most important tasks by doing things at one time
- let my emotions be calm & let me when I should be calm & let with guide way
- I think the end not the order of things

always rationally think
Never forget that you have the power to change the course of your life - no matter what your reaction is to any given situation
- a man is defined by his reaction to any given situation
- I think too much instead of just acting
- I need to be able to improve my decision making skills

look at where you're trying to go & things needed to achieve that
- write a paper or who I am
- I need to stop thinking things happen overnight
- best learn by breaking things down to the simplest form & taking my time to learn slowly
- I am a step by step slow process learner
- I need to stop thinking things happen overnight
- I need to stop thinking things happen overnight