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Calculator

Case studies

Close ✕

administer fluoxetine 3.8 mg per G tube daily.

A nurse is calculating the dosage of memantine. Available is memantine solution 10 mg/5 mL. How many milliliters should the nurse administer?

(Round the answer to the nearest tenth. Review the MAR and flow sheet. Round the answer to the nearest tenth.)

✓ 7.5

Step 1
What is the unit of measurement the nurse should calculate? (Place the unit of measure being calculated on the left side of the equation.)

$X \text{ mL} =$

Step 2
Find the ratio in the item that contains the same unit as the unit being calculated. (Place the ratio on the right side of the equation, ensuring that the unit in the numerator matches the unit being calculated.)

$X \text{ mL} = \dfrac{5 \text{ mL}}{10 \text{ mg}}$

Step 3
Place any remaining ratios that are relevant to the item on the right side of the equation along with any needed conversion factors to cancel out unwanted units of measure.

$X \text{ mL} = \dfrac{5 \text{ mL}}{10 \text{ mg}} \times \dfrac{15 \text{ mg}}{1}$

Step 4
Solve for X.

$X \text{ mL} = 7.5 \text{ mL}$

Step 5
Round if necessary.

Step 6
Determine if the amount to administer makes sense.

If there are 10 mg/5 mL and the prescribed amount is 15 mg, it makes sense to administer 7.5 mL. The nurse should administer memantine 7.5 mL per G tube twice daily.

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Calculator

Case studies

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should the nurse administer?

(Review the MAR and flow sheet. Round the answer to the nearest tenth. Measure the correct dose of the medication by dragging the syringe. Then click "Submit.")

✓ 3.8

Step 1
What is the unit of measurement the nurse should calculate? (Place the unit of measure being calculated on the left side of the equation.)

$X \text{ mL} =$

Step 2
Find the ratio in the item that contains the same unit as the unit being calculated. (Place the ratio on the right side of the equation, ensuring that the unit in the numerator matches the unit being calculated.)

$X \text{ mL} = \dfrac{5 \text{ mL}}{20 \text{ mg}}$

Step 3
Place any remaining ratios that are relevant to the item on the right side of the equation along with any needed conversion factors to cancel out unwanted units of measure.

$X \text{ mL} = \dfrac{5 \text{ mL}}{20 \text{ mg}} \times \dfrac{15 \text{ mg}}{1}$

Step 4
Solve for X.

$X \text{ mL} = 3.75 \text{ mL}$

Step 5
Round if necessary.

3.75 mL rounds to 3.8 mL.

Step 6
Determine if the amount to administer makes sense.

If there are 20 mg/5 mL and the prescribed amount is 15 mg, it makes sense to administer 3.8 mL. The nurse should administer fluoxetine 3.8 mL per G tube daily.

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not an option to have name on assignment

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A nurse is calculating the dosage of morphine. Available is morphine oral solution 20 mg/mL. How many milliliters should the nurse administer?

(Review the MAR and flow sheet. Round the answer to the nearest tenth.")

✓ 1.5

Step 1
What is the unit of measurement the nurse should calculate? (Place the unit of measure being calculated on the left side of the equation.)

$X \text{ mL} =$

Step 2
Find the ratio in the item that contains the same unit as the unit being calculated. (Place the ratio on the right side of the equation, ensuring that the unit in the numerator matches the unit being calculated.)

$X \text{ mL} = \dfrac{1 \text{ mL}}{20 \text{ mg}}$

Step 3
Place any remaining ratios that are relevant to the item on the right side of the equation along with any needed conversion factors to cancel out unwanted units of measure.

$X \text{ mL} = \dfrac{1 \text{ mL}}{20 \text{ mg}} \times \dfrac{30 \text{ mg}}{1}$

Step 4
Solve for X.

$X \text{ mL} = 1.5 \text{ mL}$

Step 5
Round if necessary.

Step 6
Determine if the amount to administer makes sense.

If there are 20 mg/mL and the prescribed amount is 30 mg, it makes sense to administer 1.5 mL. The nurse should administer morphine oral solution 1.5 mL per G tube PRN pain.

A nurse is calculating the dosage of fluoxetine. Available is fluoxetine 20 mg/5 mL. How many milliliters should the nurse administer

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Case studies

Close ✕

A nurse is calculating the dosage of lorazepam. Available is lorazepam solution 2 mg/mL. How many milliliters should the nurse administer?

(Review the MAR and flow sheet. Round the answer to the nearest hundredth. Measure the correct dose of the medication by dragging the syringe. Then click "Submit.")

✓ 0.25

Step 1
What is the unit of measurement the nurse should calculate? (Place the unit of measure being calculated on the left side of the equation.)

$X \text{ mL} =$

Step 2
Find the ratio in the item that contains the same unit as the unit being calculated. (Place the ratio on the right side of the equation, ensuring that the unit in the numerator matches the unit being calculated.)

$X \text{ mL} = \dfrac{1 \text{ mL}}{2 \text{ mg}}$

Step 3
Place any remaining ratios that are relevant to the item on the right side of the equation along with any needed conversion factors to cancel out unwanted units of measure.

$X \text{ mL} = \dfrac{1 \text{ mL}}{2 \text{ mg}} \times \dfrac{0.5 \text{ mg}}{1}$

Step 4
Solve for X.

$X \text{ mL} = 0.25 \text{ mL}$

Step 5
Round if necessary.

Step 6
Determine if the amount to administer makes sense.

If there are 2 mg/mL and the prescribed amount is 0.5 mg, it makes sense to administer 0.25 mL. The nurse should administer lorazepam 0.25 mL per G tube every 6 hr PRN agitation.

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Calculator

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A nurse is calculating the dosage of enoxaparin. Available is enoxaparin injection 100 mg/mL. How many milliliters should the nurse administer?

(Review the MAR and flow sheet. Round the answer to the nearest tenth. Measure the correct dose of the medication by dragging the syringe. Then click "Submit.")

0.7

Step 1
What is the unit of measurement the nurse should calculate? (Place the unit of measure being calculated on the left side of the equation.)

$X \text{ mL} =$

Step 2
Find the ratio in the item that contains the same unit as the unit being calculated. (Place the ratio on the right side of the equation, ensuring that the unit in the numerator matches the unit being calculated.)

$X \text{ mL} = \dfrac{1 \text{ mL}}{100 \text{ mg}}$

Step 3
Place any remaining ratios that are relevant to the item on the right side of the equation along with any needed conversion factors to cancel out unwanted units of measure.

$X \text{ mL} = \dfrac{1 \text{ mL}}{100 \text{ mg}} \times \dfrac{70 \text{ mg}}{1}$

Step 4
Solve for X.

$X \text{ mL} = 0.7 \text{ mL}$

Step 5
Round if necessary.

Step 6
Determine if the amount to administer makes sense.

If there are 100 mg/mL and the prescribed amount is 70 mg, it makes sense to administer 0.7 mL. The nurse should

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Calculator

Case studies Close ✕

73.6

Step 1
What is the unit of measurement the nurse should calculate? (Place the unit of measure being calculated on the left side of the equation.)

$X \text{ kg} =$

Step 2
Find the ratio in the item that contains the same unit as the unit being calculated. (Place the ratio on the right side of the equation, ensuring that the unit in the numerator matches the unit being calculated.)

$X \text{ kg} = \dfrac{1 \text{ kg}}{2.2 \text{ lb}}$

Step 3
Place any remaining ratios that are relevant to the item on the right side of the equation along with any needed conversion factors to cancel out unwanted units of measure.

$X \text{ kg} = \dfrac{1 \text{ kg}}{2.2 \text{ lb}} \times \dfrac{162 \text{ lb}}{1}$

Step 4
Solve for X.

$X \text{ kg} = 73.636363 \text{ kg}$

Step 5
Round if necessary.

73.636363 kg rounds to 73.6 kg.

Step 6
Determine if the equivalent makes sense.

If 1 kg equals 2.2 lb, it makes sense that 162 lb equals 73.6 kg.

A nurse is calculating the dosage of captopril. Available is captopril elixir 1 mg/mL. How many milliliters should the nurse administer?

(Review the MAR and flow sheet. Round the answer to the nearest tenth.)

12.5

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Calculator

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A nurse is calculating the dosage of captopril. Available is captopril elixir 1 mg/mL. How many milliliters should the nurse administer?

(Review the MAR and flow sheet. Round the answer to the nearest tenth.)

12.5

Step 1
What is the unit of measurement the nurse should calculate? (Place the unit of measure being calculated on the left side of the equation.)

$X \text{ mL} =$

Step 2
Find the ratio in the item that contains the same unit as the unit being calculated. (Place the ratio on the right side of the equation, ensuring that the unit in the numerator matches the unit being calculated.)

$X \text{ mL} = \dfrac{1 \text{ mL}}{1 \text{ mg}}$

Step 3
Place any remaining ratios that are relevant to the item on the right side of the equation along with any needed conversion factors to cancel out unwanted units of measure.

$X \text{ mL} = \dfrac{1 \text{ mL}}{1 \text{ mg}} \times \dfrac{12.5 \text{ mg}}{1}$

Step 4
Solve for X.

$X \text{ mL} = 12.5 \text{ mL}$

Tyranny Davis