



CLOSE

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## Case studies

A nurse is converting a client's weight from pounds to kilograms. What is the client's weight in kilograms?  
(Review the MAR. Round the answer to the nearest tenth.)

49.1

### 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 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.)

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

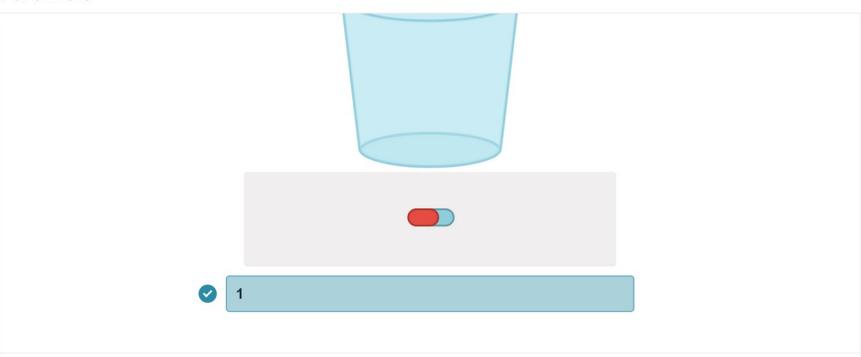


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## Case studies



### 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.)



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Calculator

## Case studies

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(Review the MAR and medication label. Round the answer to the nearest tenth.)



✓ 1.3

### 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.)



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Calculator

## Case studies

Close X

If there are 80 mg/mL and the prescribed amount is 100 mg, it makes sense to administer 1.3 mL. The nurse should administer ritonavir 1.3 mL PO daily.

A nurse is calculating the dosage of abacavir. How many milliliters should the nurse administer?



✓ 15



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## Case studies

A nurse is calculating the dosage of emtricitabine. How many milliliters should the nurse administer?

**Emtricitabine**  
Oral Solution 10/mg/mL  
170 mL Rx only

Each mL contains 10 mg emtricitabine.  
See package insert for dosage and administration.  
The oral solution should be used within 3 months if stored by patient at 25°C (77° F), excursions permitted to 15-30° C (59-86° F).  
Keep container tightly closed.

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**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 mL =

**Step 2**



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### Case studies

1



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### Case studies

- A Mix with 0.9% NaCl.
- B Use immediately.
- C Dilute with 2 mL fluid.
- D Final dilution is 90 mg/mL.
- E Store at 25° C (77° F) before mixing.
- F Use for subcutaneous injection.

The nurse should use sterile water for injection as the diluent for this medication. The nurse should use this medication immediately after reconstitution. The nurse should dilute this medication with 1 mL fluid. The final dilution of this medication is 90 mg/mL. The nurse should ensure that this medication is stored at 25° C (77° F) before mixing. This medication is for subcutaneous injection use only.