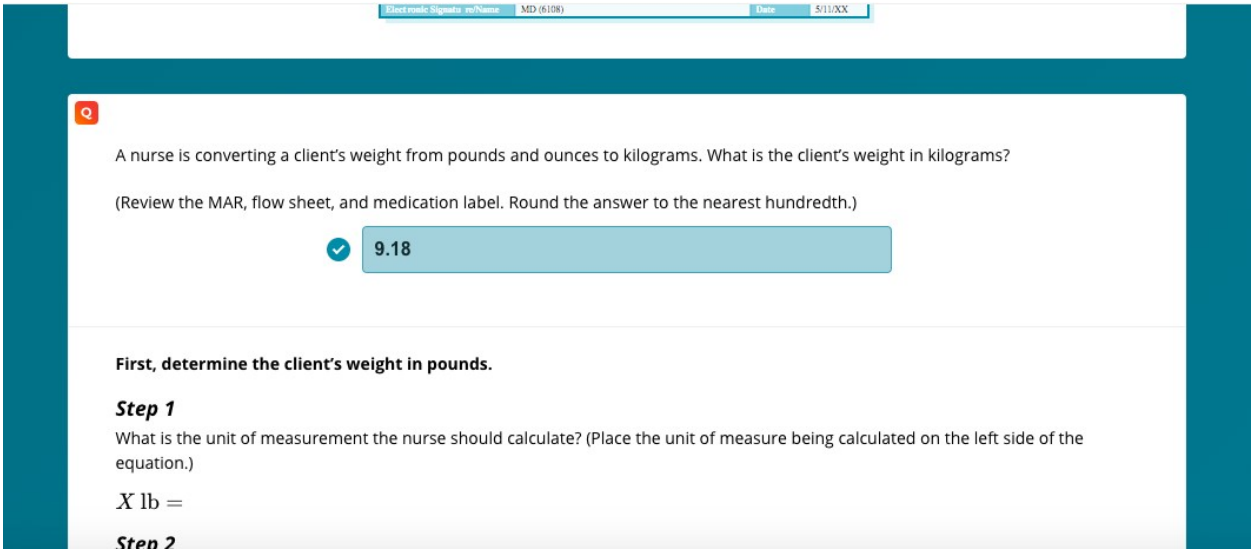
Dosage Calculation Modules case study : Pediatric Ear infection/dehydration

1.



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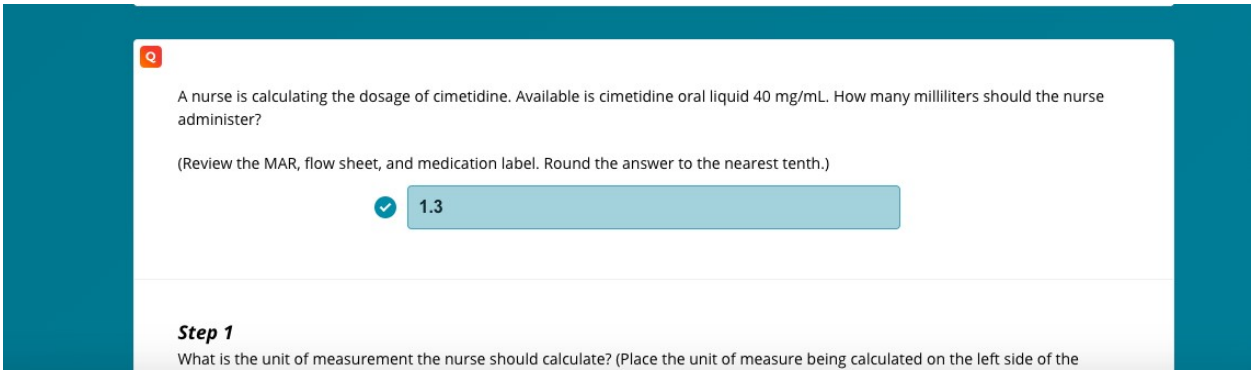

3.

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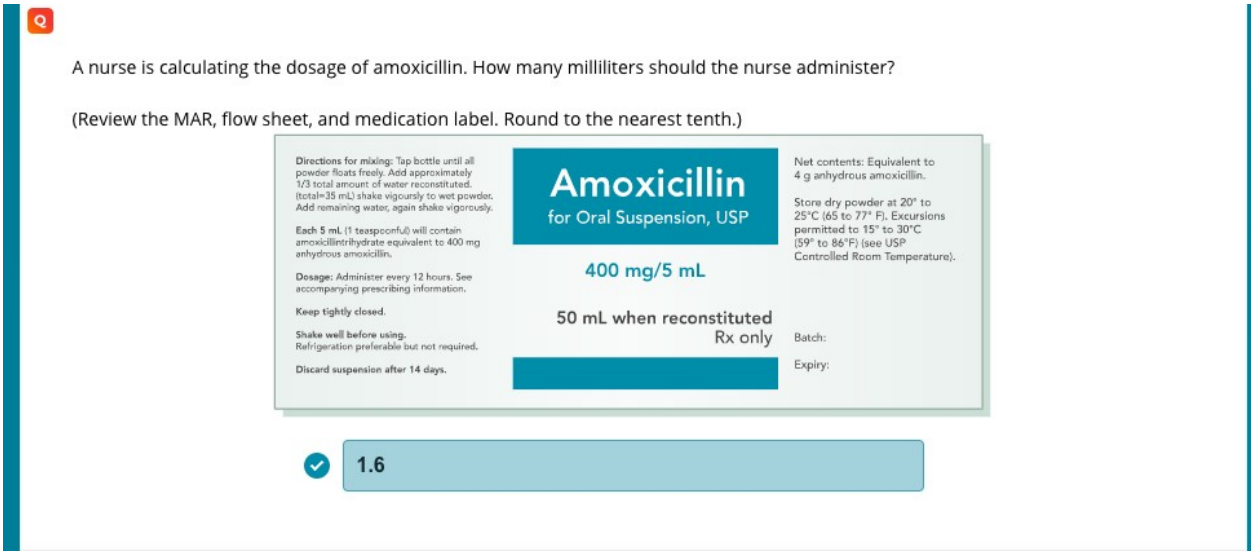
amoxicillintrihydrate equivalent to 400 mg anhydrous amoxicillin.
Dosage: Administer every 12 hours. See accompanying prescribing information.
Keep tightly closed.
Shake well before using. Refrigeration preferable but not required.
Discard suspension after 14 days.
400 mg/5 mL
50 mL when reconstituted
Rx only
(59° to 86°F) (see USP Controlled Room Temperature).
Batch:
Expiry:
35
Directions for mixing: Tap bottle until all powder floats freely. Add approximately 1/3 total amount of water reconstituted. (total=35 mL) Shake vigorously to wet powder. Add remaining water, again shake vigorously.
Each 5 mL (1 teaspoonful) will contain amoxicillintrihydrate equivalent to 400 mg anhydrous amoxicillin.
Dosage: Administer every 12 hours. See accompanying prescribing information.
Keep tightly closed.
Shake well before using. Refrigeration preferable but not required.
Amoxicillin
for Oral Suspension, USP
400 mg/5 mL
50 mL when reconstituted
Rx only
Net contents: Equivalent to 4 g anhydrous amoxicillin.
Store dry powder at 20° to 25°C (65 to 77° F). Excursions permitted to 15° to 30°C (59° to 86°F) (see USP Controlled Room Temperature).
Batch:

4.


Q
A nurse is calculating the dosage of amoxicillin. How many milliliters should the nurse administer?
(Review the MAR, flow sheet, and medication label. Round to the nearest tenth.)
Directions for mixing: Tap bottle until all powder floats freely. Add approximately 1/3 total amount of water reconstituted. (total=35 mL) shake vigorously to wet powder. Add remaining water, again shake vigorously.
Each 5 mL (1 teaspoonful) will contain amoxicillintrihydrate equivalent to 400 mg anhydrous amoxicillin.
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Amoxicillin
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Rx only
Net contents: Equivalent to 4 g anhydrous amoxicillin.
Store dry powder at 20° to 25°C (65 to 77° F). Excursions permitted to 15° to 30°C (59° to 86°F) (see USP Controlled Room Temperature).
Batch:
Expiry:
1.6

5.

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amoxicillin 1.6 mL PO every 12 hr.

A nurse is calculating a client's daily maintenance fluid requirement. What is the daily maintenance fluid requirement for the client?

(Review the MAR, flow sheet, and medication label. Round the answer to the nearest whole number.)

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Step 1

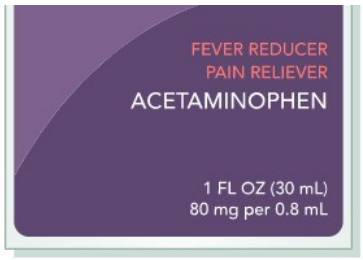
What is the formula?

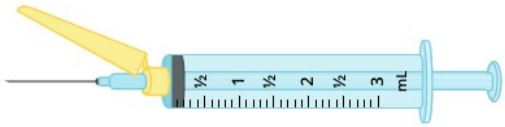
$$X = (100 \times 10) + (50 \times 10) + (20 \times \_\_\_)$$

Step 2

What is the client's weight? (Convert to kg if needed.)

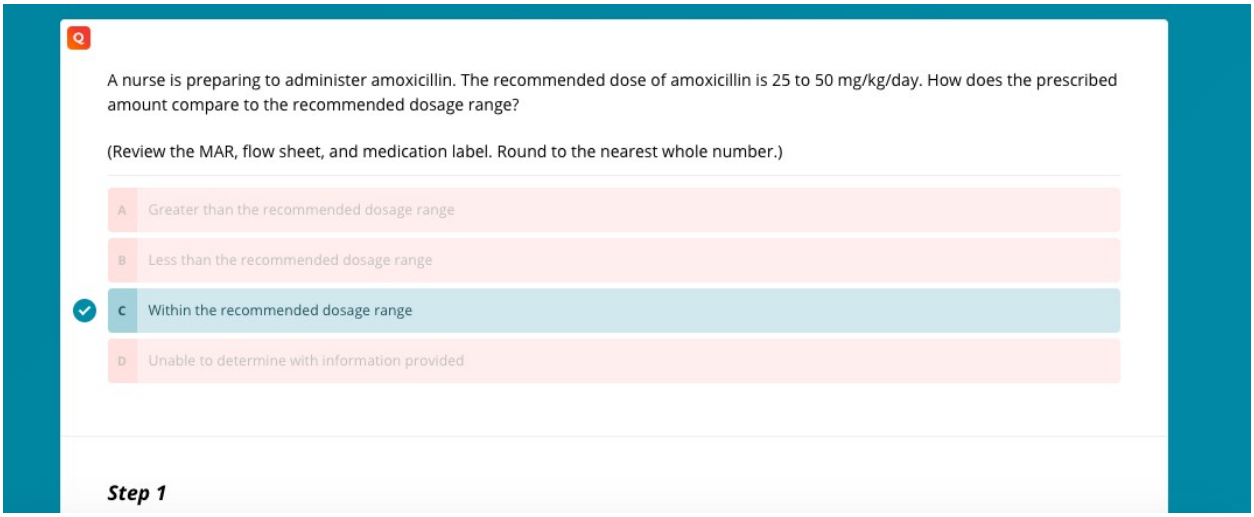
6.





1.2

7.


Q
A nurse is preparing to administer amoxicillin. The recommended dose of amoxicillin is 25 to 50 mg/kg/day. How does the prescribed amount compare to the recommended dosage range?
(Review the MAR, flow sheet, and medication label. Round to the nearest whole number.)
A Greater than the recommended dosage range
B Less than the recommended dosage range
C Within the recommended dosage range
D Unable to determine with information provided
Step 1