



CNA math, one domain at a time.

A focused, printable reference built from MedMathMindset's current provider-specific quantitative blueprint.

BLUEPRINT SNAPSHOT

9 domains | 100% total instructional weight

Domains are ordered from highest to lowest MedMathMindset instructional weight. These are MedMathMindset training weights, not official credentialing-body exam percentages unless an official source explicitly states otherwise.

USE IT THREE WAYS

Teach | Review | Print

Use the worked examples as a quick class reference, learner review sheet, or printable teaching aid.

WHAT THE ATLAS ADDS

Example + reasoning + check

Each domain pairs one worked example with the setup, answer, and a reasonableness check.

DOMAINS IN THIS ATLAS

1. Whole Number Operations 18%

3. CNA/CMA Clinical Support Math 12%

5. Intake / Output 12%

7. Provider Operations Math 10%

9. Nutrition / Metabolism Math 5%

2. Unit Conversions 14%

4. Fractions / Decimals 12%

6. Percentages 12%

8. Clinical Index / Score Interpretation 5%

IMPORTANT SCOPE NOTE

Educational examples only. This atlas does not replace local protocols, medication references, device instructions, scope-of-practice requirements, official credentialing test plans, or clinical judgment.



DOMAIN 1 OF 9

Whole Number Operations

18%
MMM weight

Whole Number Operations is included because it matches expected quantitative work for this provider level. CNA scope emphasizes intake/output, measurements, safety observation, and basic clinical support-not medication administration or IV therapy.

EXAMPLE

A supply area starts with 24 counted items, adds 18, then uses 11. How many remain?

SETUP / REASONING

$$24 + 18 - 11 = 31.$$

ANSWER

31 items

QUICK CHECK

Reconcile the starting quantity, additions, and use; the ending count should fit the story.

DOMAIN 2 OF 9

Unit Conversions

14%
MMM weight

Unit Conversions is included because it matches expected quantitative work for this provider level. CNA scope emphasizes intake/output, measurements, safety observation, and basic clinical support-not medication administration or IV therapy.

EXAMPLE

Convert 750 mg to g.

SETUP / REASONING

Use the 1000:1 metric relationship; the result is 0.75 g.

ANSWER

0.75 g

QUICK CHECK

Confirm the direction of the conversion and that the final unit is exactly the requested unit.



DOMAIN 3 OF 9

CNA/CMA Clinical Support Math

12%
MMM weight

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EXAMPLE

While checking a patient's pulse, you count 18 heartbeats in 15 seconds. What is the pulse rate in beats per minute?

SETUP / REASONING

Multiply by 4 to scale the heartbeat count to one minute: 72 beats/min.

ANSWER

72 beats/min

QUICK CHECK

Scale the observed count to a full minute using the correct time multiplier.

DOMAIN 4 OF 9

Fractions / Decimals

12%
MMM weight

Fractions / Decimals is included because it matches expected quantitative work for this provider level. CNA scope emphasizes intake/output, measurements, safety observation, and basic clinical support-not medication administration or IV therapy.

EXAMPLE

Write $\frac{3}{4}$ as a decimal.

SETUP / REASONING

$3 / 4 = 0.75$.

ANSWER

0.75

QUICK CHECK

For a proper fraction, the decimal should fall between 0 and 1.



DOMAIN 5 OF 9

Intake / Output

12%
MMM weight

Intake / Output is included because it matches expected quantitative work for this provider level. CNA scope emphasizes intake/output, measurements, safety observation, and basic clinical support-not medication administration or IV therapy.

EXAMPLE

Intake is 240 mL plus 120 mL. Output is 150 mL. What is the net fluid balance?

SETUP / REASONING

Total intake is 360 mL; subtract 150 mL to get 210 mL.

ANSWER

210 mL

QUICK CHECK

Add all intake first, then subtract output; retain the sign because positive and negative balances mean different things.

DOMAIN 6 OF 9

Percentages

12%
MMM weight

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EXAMPLE

What is 25% of 80?

SETUP / REASONING

$25\% \times 80 = 20$.

ANSWER

20

QUICK CHECK

The result should be the stated fraction of the whole; compare its magnitude with 0% and 100%.



DOMAIN 7 OF 9

Provider Operations Math

10%
MMM weight

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EXAMPLE

A device has 600 usable units and consumes 10 units each minute. Ignoring reserve, how many minutes will it run?

SETUP / REASONING

$600 / 10 = 60$ minutes.

ANSWER

60 min

QUICK CHECK

A quantity divided by a consumption rate should produce a time or capacity that fits the operating context.

DOMAIN 8 OF 9

Clinical Index / Score Interpretation

5%
MMM weight

Clinical Index / Score Interpretation is included because it matches expected quantitative work for this provider level. CNA scope emphasizes intake/output, measurements, safety observation, and basic clinical support-not medication administration or IV therapy.

EXAMPLE

24 events occur during 6 hours. What is the event index per hour?

SETUP / REASONING

$24 / 6 = 4$ events/hr.

ANSWER

4 events/hr

QUICK CHECK

An index is a rate: confirm both the numerator and the time/exposure denominator.



DOMAIN 9 OF 9

5%
MMM weight

Nutrition / Metabolism Math

Nutrition / Metabolism Math is included because it matches expected quantitative work for this provider level. CNA scope emphasizes intake/output, measurements, safety observation, and basic clinical support-not medication administration or IV therapy.

EXAMPLE

A nutrient provides about 4 kcal per gram. How many kcal are provided by 25 g?

SETUP / REASONING

$25 \times 4 = 100 \text{ kcal}$.

ANSWER

100 kcal

QUICK CHECK

Energy should scale directly with grams when kcal per gram is fixed.

REFRESH PRINTED COPIES PERIODICALLY

Provider scope and MedMathMindset instructional weighting may change as the canonical provider-domain layer is updated.