

Philippine PMA Entrance Exam Cheat Sheet

2026

The night-before summary, built like the exam.

Questions	Time limit	Passing score
Exam fee	Philippine Military Academy Governing body	

PMAEE Printable Quick Reference

Use this sheet as a fast review for the Philippine Military Academy Entrance Examination. The official coverage includes Math: Algebra and Geometry, English: Grammar, Composition, Reading and Comprehension, and Verbal and Numerical Reasoning and Pattern Analysis. For slower lessons, use the PMAEE study guide; for drills, use PMAEE practice exercises.

Algebra speed checks

- Linear equation routine: clear fractions, combine like terms, isolate the variable, then substitute your answer back. Example: $3x + 5 = 20$ gives $3x = 15$, so $x = 5$; check: $3(5) + 5 = 20$.
- Distribution: $a(b + c) = ab + ac$. Mistake to avoid: $2(x + 4)$ is $2x + 8$, not $2x + 4$.
- Signs: negative times negative is positive; negative plus negative stays negative. Example: $-6 - 4 = -10$, while $(-6)(-4) = 24$.
- Percent proportion: $\text{part/base} = \text{percent}/100$. Example: If 18 is 30 percent of a number, write $18/x = 30/100$, so $30x = 1800$ and $x = 60$.
- Word problems: define the unknown before calculating. If a number increased by 7 is 19, write $n + 7 = 19$, not $7n = 19$.

Geometry facts to keep visible

Fact	Mini example	Common trap
Triangle angles sum to 180 degrees.	If two angles are 45 degrees and 65 degrees, the third is $180 - 110 = 70$ degrees.	Do not assume a drawing is to scale unless stated.
A right angle is 90 degrees.	A triangle with one 90-degree angle and one 35-degree angle has a third angle of 55 degrees.	Do not add an extra 90 degrees for the outside corner.
Each angle of an equilateral triangle is 60 degrees.	Three equal angles: 180 divided by $3 = 60$.	Equal sides imply equal angles, but not every triangle shown neatly is equilateral.
Quadrilateral angles sum to 360 degrees.	If three angles are 80, 95, and 105 degrees, the fourth is 80 degrees.	Do not use the 180-degree triangle rule on a four-sided figure.

Grammar and composition shortcuts

- Subject-verb agreement: find the real subject, not the nearest noun. Example: The list of supplies is ready.
- Pronoun clarity: a pronoun must clearly point to one noun. Weak: Marco told Luis that he was late. Better: Marco told Luis, "I was late."

- Parallel structure: keep items in the same form. Correct: The cadet planned to run, to study, and to rest.
- Sentence repair: when choosing a revision, prefer clear, complete, and concise wording over fancy wording.
- Composition check: a strong paragraph has one main idea, supporting details, and transitions such as however, therefore, and for example.

Reading, verbal reasoning, and numerical reasoning

- Main idea: ask, “What is the whole passage mostly proving or explaining?” Avoid answers that mention only one detail.
- Inference: choose what must reasonably follow from the text, not what could be true in real life.
- Vocabulary in context: replace the word with each option and keep the one that preserves the sentence’s meaning and tone.
- Numerical reasoning: estimate first. If the answer choices are far apart, approximation can expose impossible options quickly.
- Ratio example: If 3 notebooks cost 45 pesos, one costs 15 pesos, so 8 cost 120 pesos.

Pattern analysis checklist

- Number sequences: test addition, subtraction, multiplication, division, alternating rules, and squares. Example: 2, 5, 11, 23 adds 3, 6, 12, so the next addend is 24 and the next term is 47.
- Letter patterns: convert letters to positions. Example: C, F, I, L moves +3 each time, so the next is O.
- Shape patterns: track one feature at a time: rotation, shading, number of sides, position, or repetition.
- Matrix items: compare rows and columns separately. A missing box often combines two rules, such as “shape changes across” and “shading changes down.”

Last-Minute Checklist

1. Review this sheet, then do a short mixed set from practice rather than studying only your strongest topic.
2. For math, write equations neatly and check by substitution or estimation.
3. For English, read every option before choosing; many wrong choices are grammatically close but unclear.
4. For reasoning, look for the rule before looking at the choices so distractors do not lead you.
5. Use the PMAEE exam overview for orientation, but treat this page as a printable reference sheet, not an official registration source.

Official sources

- The Open University — Geometry: angles of a triangle:
<https://www.open.edu/openlearn/science-maths-technology/mathematics-statistics/geometry/content-section-2.8>
- Philippine Military Academy — PMA entrance examination: instructions:
https://www.pma.edu.ph/pages/join/dos_donts.html
- OpenStax / Rice University — Prealgebra 2e: proportions:
<https://openstax.org/books/prealgebra-2e/pages/6-5-solve-proportions-and-their-applications>

Free practice questions for this exam: www.everyexamprep.com/exams/philippine-pma-entrance/practice-test