

GMAS 6TH GRADE MATHEMATICS PRACTICE TEST (SAMPLE)

STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

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THE FULL VERSION STUDY GUIDE

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Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

Remember: successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

How to Use This Guide

This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:

1. Start with a Diagnostic Review

Skim through the questions to get a sense of what you know and what you need to focus on. Your goal is to identify knowledge gaps early.

2. Study in Short, Focused Sessions

Break your study time into manageable blocks (e.g. 30 – 45 minutes). Review a handful of questions, reflect on the explanations.

3. Learn from the Explanations

After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.

4. Track Your Progress

Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.

5. Simulate the Real Exam

Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.

6. Repeat and Review

Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning. Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.

There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly, adapt the tips above to fit your pace and learning style. You've got this!

Questions

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1. Find the area of a rectangle with length 12 and width 4.
 - A. 48
 - B. 36
 - C. 40
 - D. 60
2. Convert 4 centimeters to millimeters.
 - A. 4
 - B. 400
 - C. 40
 - D. 14
3. Find the area of a rectangle with length 9 and width 5.
 - A. 9
 - B. 25
 - C. 45
 - D. 54
4. What is the sum of $\frac{5}{6}$ and $\frac{7}{15}$?
 - A. $\frac{8}{5}$
 - B. $\frac{1}{3}$
 - C. $\frac{13}{10}$
 - D. $\frac{39}{60}$
5. Find the greatest common factor of 18 and 24.
 - A. 6
 - B. 3
 - C. 12
 - D. 18
6. What is the area of a square with side length 11 units?
 - A. 121
 - B. 100
 - C. 110
 - D. 132

7. What is the area of a square with side length 8.5 units?

- A. 68
- B. 72.25
- C. 64
- D. 70

8. Solve $9x = 0.9$; $x = ?$

- A. 0.01
- B. 0.05
- C. 1
- D. 0.1

9. Simplify: $3^2 + 4$.

- A. 9
- B. 13
- C. 16
- D. 7

10. Evaluate the expression $4b - 3b + 2$ when $b = 5$.

- A. 9
- B. 11
- C. 3
- D. 7

Answers

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1. A
2. C
3. C
4. C
5. A
6. A
7. B
8. D
9. B
10. D

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Explanations

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1. Find the area of a rectangle with length 12 and width 4.

- A. 48
- B. 36
- C. 40
- D. 60

Area of a rectangle is found by multiplying its length by its width. With a length of 12 and a width of 4, multiply 12 by 4 to get 48. So the area is 48 square units. The other numbers would come from different dimensions, not the given 12 and 4.

2. Convert 4 centimeters to millimeters.

- A. 4
- B. 400
- C. 40
- D. 14

When converting from centimeters to millimeters, remember that 1 centimeter equals 10 millimeters. So, multiply the number of centimeters by 10. For 4 centimeters, $4 \times 10 = 40$ millimeters. The other numbers don't fit the conversion: 4 would be the measurement in centimeters, not millimeters; 400 would come from multiplying by 100, which isn't the conversion factor here; 14 isn't related to the conversion at all.

3. Find the area of a rectangle with length 9 and width 5.

- A. 9
- B. 25
- C. 45
- D. 54

Area of a rectangle is found by multiplying its length by its width. With length 9 and width 5, 9×5 equals 45, so the area is 45 square units. The other numbers come from using only one dimension (9), squaring the width ($5 \times 5 = 25$), or using a different dimension (like $9 \times 6 = 54$), which don't match the given measurements.

4. What is the sum of $\frac{5}{6}$ and $\frac{7}{15}$?

- A. $\frac{8}{5}$
- B. $\frac{1}{3}$
- C. $\frac{13}{10}$
- D. $\frac{39}{60}$

Adding fractions requires a common denominator so you can combine the tops. Turn each fraction into an equivalent one with the same bottom, then add the tops and simplify. For $\frac{5}{6}$ and $\frac{7}{15}$, the common denominator is 30. Rewriting gives $\frac{5}{6} = \frac{25}{30}$ and $\frac{7}{15} = \frac{14}{30}$. Add them: $\frac{25}{30} + \frac{14}{30} = \frac{39}{30}$. Simplify by dividing numerator and denominator by 3 to get $\frac{13}{10}$, which is the final sum (1 and $\frac{3}{10}$).

5. Find the greatest common factor of 18 and 24.

A. 6

B. 3

C. 12

D. 18

Finding the greatest common factor means finding the largest number that can divide both numbers exactly. A clear way is to list all the factors of each number and see which ones they share. The factors of 18 are 1, 2, 3, 6, 9, and 18. The factors of 24 are 1, 2, 3, 4, 6, 8, 12, and 24. The common factors are 1, 2, 3, and 6, and among these the largest is 6. You can also see this from prime factorization: $18 = 2 \times 3^2$ and $24 = 2^3 \times 3$. The common primes with the smallest powers are 2^1 and 3^1 , which multiply to 6. So, the greatest common factor is 6.

6. What is the area of a square with side length 11 units?

A. 121

B. 100

C. 110

D. 132

Area of a square is found by multiplying the side length by itself. With a side length of 11 units, the area is $11 \times 11 = 121$ square units. This reflects the space inside the square, using 11 units for width and 11 units for height. The other numbers come from different shapes or dimensions: 100 would be a 10 by 10 square, 110 comes from 11 by 10, and 132 comes from a 12 by 11 rectangle.

7. What is the area of a square with side length 8.5 units?

A. 68

B. 72.25

C. 64

D. 70

Area is found by squaring the side length of a square. With a side length of 8.5 units, multiply 8.5 by 8.5. Using $(8 + 0.5)^2$ gives $64 + 8 + 0.25 = 72.25$. So the area is 72.25 square units. As a quick check, 8.5×8.5 equals 72.25, not 64 (which would come from 8×8) or 68 (which is 8×8.5). The result 70 doesn't come from squaring 8.5, so 72.25 is the correct area.

8. Solve $9x = 0.9$; $x = ?$

A. 0.01

B. 0.05

C. 1

D. 0.1

Undoing the multiplication by 9 shows the way forward. If $9x$ equals 0.9, divide both sides by 9 to isolate x . So $x = 0.9 \div 9$. Since $9 \times 0.1 = 0.9$, the quotient is 0.1. Another check: 0.9 is the same as $9/10$, and $(9/10) \div 9 = 1/10 = 0.1$, confirming the result. The other values don't give 0.9 when multiplied by 9: $9 \times 0.01 = 0.09$, $9 \times 0.05 = 0.45$, and $9 \times 1 = 9$.

9. Simplify: $3^2 + 4$.

- A. 9
- B. 13**
- C. 16
- D. 7

Exponents come before addition. First square the 3: $3^2 = 9$. Then add the 4: $9 + 4 = 13$. So the expression simplifies to 13. The other numbers come from either skipping the addition or misapplying the operation order, but with $3^2 + 4$ the correct result is 13.

10. Evaluate the expression $4b - 3b + 2$ when $b = 5$.

- A. 9
- B. 11
- C. 3
- D. 7**

When you see $4b - 3b + 2$, start by combining like terms with b . $4b$ and $-3b$ combine to $(4 - 3)b = b$, so the expression simplifies to $b + 2$. Then substitute $b = 5$: $5 + 2 = 7$. So the value is 7. (You can also plug in first: $4(5) - 3(5) + 2 = 20 - 15 + 2 = 7$.)

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Next Steps

Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.

As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.

If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at hello@examzify.com.

Or visit your dedicated course page for more study tools and resources:

<https://gmas6thgrademath.examzify.com>

We wish you the very best on your exam journey. You've got this!

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