# GMAS 6th Grade Mathematics Practice Test (Sample)

## Study Guide

BY EXAMZIFY

**Everything you need from our exam experts!**

**Sample study guide. For the full version with hundreds of questions, visit: https://gmas6thgrademath.examzify.com**

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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.**

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# 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!**

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# Questions

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**1. Order the numbers from least to greatest: -7, -3, 1, 6.**

**A. -3, -7, 1, 6**

**B. -7, -3, 1, 6**

**C. -7, 1, -3, 6**

**D. -7, -3, 6, 1**

**2. What is the area of a rectangle with length 8 units and width 5 units?**

**A. 40**

**B. 13**

**C. 45**

**D. 35**

**3. Which ratio is equivalent to 3:4?**

**A. 5:6**

**B. 3:4**

**C. 6:8**

**D. 9:12**

**4. What is 25% of 60?**

**A. 10**

**B. 15**

**C. 12**

**D. 20**

**5. What is the product of 0.7 and 0.2?**

**A. 0.7**

**B. 0.02**

**C. 0.3**

**D. 0.14**

**6. What is the product of 0.32 and 0.5?**

**A. 0.32**

**B. 0.16**

**C. 0.032**

**D. 0.64**

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**7. Arrange the following numbers from least to greatest: -4, 7, -1, 0, -9.**

**A. -9, -4, -1, 0, 7**

**B. -9, -1, -4, 0, 7**

**C. -9, -4, 0, -1, 7**

**D. -9, 0, -4, -1, 7**

**8. What is the volume of a solid whose base area is 24 square units and height is 7?**

**A. 140**

**B. 224**

**C. 168**

**D. 192**

**9. x − 2/3 = 5/6; what is x?**

**A. 3/2**

**B. 1**

**C. 5/6**

**D. 1/2**

**10. Sum: 5/8 + 3/4**

**A. 11/8**

**B. 7/8**

**C. 1**

**D. 9/8**

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# Answers

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

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# Explanations

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## 1. Order the numbers from least to greatest: -7, -3, 1, 6.

**A. -3, -7, 1, 6**

**B. -7, -3, 1, 6**

**C. -7, 1, -3, 6**

**D. -7, -3, 6, 1**

**Ordering numbers from least to greatest means lining them up from the smallest value to the largest on the number line. Negative numbers work like this: the more negative a number is, the smaller it is. So -7 is left of -3, making -7 the smaller one. Any negative number is less than any positive number, so -3 is still smaller than 1. And 1 is smaller than 6 because 1 is a smaller positive value. Putting them in that order gives -7, -3, 1, 6. The sequence that matches this is -7, -3, 1, 6.**

## 2. What is the area of a rectangle with length 8 units and width 5 units?

**A. 40**

**B. 13**

**C. 45**

**D. 35**

**The area of a rectangle is found by multiplying its length by its width. With a length of 8 units and a width of 5 units, you get 8 × 5 = 40 square units. That matches the value you'd expect for this rectangle's area. The other numbers aren't the product of 8 and 5 (13 isn't a product, 45 could be 9×5 or 15×3, and 35 could be 7×5), so they don't describe this rectangle's area.**

## 3. Which ratio is equivalent to 3:4?

**A. 5:6**

**B. 3:4**

**C. 6:8**

**D. 9:12**

**Equivalent ratios express the same value between the two parts. You can see this by simplifying. For 6:8, dividing top and bottom by 2 gives 3:4, so it matches 3:4. The same idea holds for 9:12, which simplifies to 3:4 as well. The ratio 3:4 is already in simplest form and represents that same value. The ratio 5:6 equals 5/6, which is not the same as 3/4, so it isn't equivalent.**

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## 4. What is 25% of 60?

**A. 10**

**B. 15**

**C. 12**

**D. 20**

**To find a percent of a number, turn the percent into a decimal and multiply. 25% is 0.25, which is the same as a quarter. A quarter of 60 is 60 ÷ 4 = 15, or 60 × 0.25 = 15. So the result is 15. The other values would come from different fractions of 60 (for example, one-sixth of 60 is 10, one-fifth is 12, and one-third is 20), not a quarter.**

## 5. What is the product of 0.7 and 0.2?

**A. 0.7**

**B. 0.02**

**C. 0.3**

**D. 0.14**

**When you multiply decimals, multiply as integers first and then place the decimal so the total number of digits after the decimal equals the sum of decimal places in the factors. Here, 0.7 has one decimal place and 0.2 has one decimal place, so the product will have two decimal places. Multiply 7 by 2 to get 14, then place the decimal two places from the right: 0.14. You can also see it as fractions: 7/10 times 2/10 equals 14/100, which is 0.14. This exactly matches the result.**

## 6. What is the product of 0.32 and 0.5?

**A. 0.32**

**B. 0.16**

**C. 0.032**

**D. 0.64**

**When you multiply by 0.5, you're taking half of the original amount. Half of 0.32 is 0.16. You can also think of decimal place rules: 0.32 has two decimal places and 0.5 has one, so the product will have three decimal places. Multiplying 32 by 5 gives 160, and placing the decimal three places from the right gives 0.160, which is 0.16. This result makes sense because it's exactly half of 0.32. The other values would come from not halving or from moving the decimal in the wrong way.**

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## 7. Arrange the following numbers from least to greatest: -4, 7, -1, 0, -9.

**A. -9, -4, -1, 0, 7**

**B. -9, -1, -4, 0, 7**

**C. -9, -4, 0, -1, 7**

**D. -9, 0, -4, -1, 7**

**When arranging numbers from least to greatest, you line them up from the smallest value to the largest on a number line. Negative numbers follow the rule that a more negative value is smaller. Here, -9 is the smallest, followed by -4, then -1, then 0, and finally 7, which is the largest. So the order is -9, -4, -1, 0, 7.**

## 8. What is the volume of a solid whose base area is 24 square units and height is 7?

**A. 140**

**B. 224**

**C. 168**

**D. 192**

**For a solid with a flat base and a constant height, the volume is found by multiplying the base area by the height. Here the base area is 24 square units and the height is 7 units, so 24 × 7 equals 168. The volume is 168 cubic units. Think of stacking seven copies of the base area, each with area 24, to see why multiplying works.**

## 9. x − 2/3 = 5/6; what is x?

**A. 3/2**

**B. 1**

**C. 5/6**

**D. 1/2**

**Isolating the variable by undoing what's attached to it is the core idea. In this equation, x is decreased by 2/3 to give 5/6, so to undo that, add 2/3 to both sides. x = 5/6 + 2/3. Convert to a common denominator: 2/3 is 4/6, so this becomes x = 5/6 + 4/6 = 9/6, which simplifies to 3/2. So x equals 3/2. You can check by substituting: 3/2 minus 2/3 equals 9/6 minus 4/6 equals 5/6, which matches the right side.**

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## 10. Sum: 5/8 + 3/4

**A. 11/8**

**B. 7/8**

**C. 1**

**D. 9/8**

**When adding fractions with different denominators, use a common denominator. Here the denominators are 8 and 4, so convert 3/4 to eighths: 3/4 = 6/8. Now add the numerators with the same denominator: 5/8 + 6/8 = 11/8. This is the sum, and it's an improper fraction (it's more than 1). If you prefer, you can also write it as 1 and 3/8.**

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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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