

CBEST MATH PRACTICE EXAM (SAMPLE)

STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

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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. 0.75 equals which fraction?

- A. $\frac{1}{2}$
- B. $\frac{1}{4}$
- C. $\frac{3}{4}$
- D. 0

2. In a triangle, if two angles measure 60° and 70° , what is the measure of the third angle?

- A. 60
- B. 70
- C. 90
- D. 50

3. What is the value of the expression $3(4 + 5) - 6$?

- A. 21
- B. 27
- C. 15
- D. 24

4. A combination of a whole number and a fraction is called a

- A. Fraction
- B. Mixed number
- C. Decimal
- D. Integer plus fraction

5. What term describes a two-dimensional layout that can be folded to form a three-dimensional solid?

- A. Surface area
- B. Volume
- C. Net
- D. Face

6. If the perimeter of a rectangle is 54 units and its length is twice its width, what are its dimensions?
- A. width 9 units and length 18 units
 - B. width 6 units and length 21 units
 - C. width 10 units and length 34 units
 - D. width 12 units and length 18 units
7. The volume of a rectangular prism with length 4, width 3, height h is 72. Solve for h .
- A. 2
 - B. 4
 - C. 6
 - D. 8
8. If a car travels at 50 mph for 2 hours, how many miles are covered?
- A. 90 miles
 - B. 95 miles
 - C. 110 miles
 - D. 100 miles
9. The area of a rectangle with length 7 and width 4 is equal to what?
- A. 32
 - B. 28
 - C. 30
 - D. 25
10. A ratio is 3:4. If the total parts are 28, how many parts are in the first ratio?
- A. 8
 - B. 16
 - C. 12
 - D. 4

Answers

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

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Explanations

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1. 0.75 equals which fraction?

- A. $\frac{1}{2}$
- B. $\frac{1}{4}$
- C. $\frac{3}{4}$**
- D. 0

Decimals and fractions share a way to express parts of a whole. 0.75 means 75 hundredths, so it's $\frac{75}{100}$. Both numerator and denominator can be divided by 25, giving $\frac{3}{4}$. Another way to see it is that one quarter is 0.25, so three quarters add up to 0.75. The other options represent 0.5, 0.25, and 0, which are not equal to 0.75.

2. In a triangle, if two angles measure 60° and 70° , what is the measure of the third angle?

- A. 60
- B. 70
- C. 90
- D. 50**

In any triangle, the interior angles always sum to 180 degrees. So the third angle is 180 degrees minus the sum of the two given angles. Adding 60° and 70° gives 130° , and $180^\circ - 130^\circ$ equals 50° . Therefore the third angle measures 50 degrees, completing a set of angles that add to 180° .

3. What is the value of the expression $3(4 + 5) - 6$?

- A. 21**
- B. 27
- C. 15
- D. 24

Evaluate inside the parentheses first, then apply multiplication, and finally subtract. $4 + 5 = 9$, so $3 \times 9 = 27$. Then $27 - 6 = 21$. This follows the standard order of operations: parentheses, multiplication, subtraction. You can also see it via distribution: $3(4 + 5) = 3 \times 4 + 3 \times 5 = 12 + 15 = 27$, and then subtract 6 to get 21. The result is 21.

4. A combination of a whole number and a fraction is called a

- A. Fraction
- B. Mixed number**
- C. Decimal
- D. Integer plus fraction

A number that includes a whole part with a fraction part is called a mixed number. It's written with the whole number followed by a fraction, like $4 \frac{3}{5}$. This is different from a fraction, which is just something like $\frac{3}{5}$; a decimal, which is written with a decimal point (like 4.6); and a vague phrase like "integer plus fraction," which isn't the standard name for this form. Mixed numbers show both the whole amount and the fractional part together, and they can also be converted to an improper fraction (for example, $7 \frac{2}{3}$ equals $\frac{23}{3}$) if you need to perform arithmetic.

5. What term describes a two-dimensional layout that can be folded to form a three-dimensional solid?

- A. Surface area
- B. Volume
- C. Net**
- D. Face

A net is a two-dimensional arrangement of polygons that can be folded along the edges to form a three-dimensional solid. This description fits the idea of unfolding a 3D shape into a flat pattern that, when folded back up, recreates the solid. The other terms describe properties or parts of a solid rather than the folded pattern: surface area is the total area of all faces, volume is the amount of space inside the object, and a face is one flat surface of the solid. Nets can vary in shape yet still fold into the same 3D figure, as long as the pieces assemble along their edges correctly.

6. If the perimeter of a rectangle is 54 units and its length is twice its width, what are its dimensions?

- A. width 9 units and length 18 units**
- B. width 6 units and length 21 units
- C. width 10 units and length 34 units
- D. width 12 units and length 18 units

Use the rectangle perimeter formula together with the fact that the length is twice the width. Let the width be w and the length be $2w$. The perimeter is 54, so $2(w + 2w) = 54$. This gives $6w = 54$, so $w = 9$. The length is $2w = 18$. Check: $2(9 + 18) = 54$ and 18 is twice 9, so the dimensions are 9 units by 18 units. The other options don't satisfy both conditions at once.

7. The volume of a rectangular prism with length 4, width 3, height h is 72. Solve for h .

- A. 2
- B. 4
- C. 6**
- D. 8

Volume is found by multiplying length, width, and height. With length 4 and width 3, their product is 12. The given volume is 72, so 12 times the height must equal 72. Therefore height $h = 72 / 12 = 6$. Check: $4 \times 3 \times 6 = 72$. If the height were 2, the volume would be 24; if 4, it would be 48; if 8, it would be 96. Only 6 gives 72.

8. If a car travels at 50 mph for 2 hours, how many miles are covered?

- A. 90 miles
- B. 95 miles
- C. 110 miles
- D. 100 miles**

Distance equals rate multiplied by time. If the car travels at 50 miles per hour for 2 hours, you multiply 50 by 2 to get 100. The units line up as miles per hour times hours gives miles, so the car covers 100 miles. You can also see it as 50 miles in the first hour and another 50 miles in the second hour, totaling 100 miles.

9. The area of a rectangle with length 7 and width 4 is equal to what?

- A. 32
- B. 28**
- C. 30
- D. 25

Area of a rectangle is found by multiplying its length by its width. With length 7 and width 4, you multiply 7 by 4 to get 28. So the area is 28 square units. The other numbers don't come from 7 multiplied by 4, so 28 is the correct result.

10. A ratio is 3:4. If the total parts are 28, how many parts are in the first ratio?

- A. 8
- B. 16
- C. 12**
- D. 4

You're dividing a total into parts proportional to the two numbers in the ratio. The total parts come from adding the parts of the ratio: $3 + 4 = 7$. So the 28 total parts are split into 7 equal units, with each unit worth $28 \div 7 = 4$ parts. The first part of the ratio uses 3 of those units, so $3 \times 4 = 12$ parts. Therefore, the number of parts in the first ratio is 12.

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://cbestmath.examzify.com>

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

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