

CXC CSEC MATHEMATICS MATHS 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. In a statistical distribution, which measure is defined as the score that occurs most frequently?
 - A. Median
 - B. Mode
 - C. Mean
 - D. Range
2. What is the median of the data set: {3, 7, 9, 5, 1}?
 - A. 5
 - B. 3
 - C. 4
 - D. 6
3. What is the solution for y in the equation $3y + 9 = 0$?
 - A. -3
 - B. -6
 - C. 0
 - D. 3
4. What is the square root of 64?
 - A. 6
 - B. 8
 - C. 10
 - D. 12
5. If 4 pounds of apples cost \$3.20, what is the cost per pound?
 - A. \$0.60
 - B. \$0.75
 - C. \$0.80
 - D. \$1.00
6. If $\frac{3}{4}$ of a number is 12, what is the number?
 - A. 8
 - B. 12
 - C. 16
 - D. 20

7. What percentage of 340 is 425?

- A. 125%
- B. 75%
- C. 100%
- D. 90%

8. What is the slope of the line represented by the equation $y = 2x + 3$?

- A. 1
- B. 2
- C. 3
- D. 4

9. If you purchase a calculator for \$50 and save \$10, what is the percentage discount given?

- A. 15%
- B. 20%
- C. 25%
- D. 30%

10. If a train travels 60 miles in 1 hour, how far will it travel in 3 hours at the same speed?

- A. 180 miles
- B. 150 miles
- C. 120 miles
- D. 240 miles

Answers

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

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Explanations

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1. In a statistical distribution, which measure is defined as the score that occurs most frequently?

- A. Median
- B. Mode**
- C. Mean
- D. Range

In a statistical distribution, the mode is defined as the score that occurs most frequently. Understanding the mode is essential in statistics because it provides insight into which value or category appears most often in a dataset. This can be particularly useful for identifying trends or common characteristics within the data. For example, if you have a dataset representing the number of pets owned by a group of people, the mode would represent the most common number of pets owned. If five people own one dog, three own two dogs, and two own three dogs, the mode would be one dog, as it is the most frequently occurring score. Other measures such as the median and mean serve different purposes. The median indicates the middle value when data is ordered, while the mean calculates the average of all values. The range provides a measure of the spread of values by calculating the difference between the highest and lowest scores. These measures enhance the overall understanding of the dataset but do not identify the most common score, which is the role of the mode.

2. What is the median of the data set: {3, 7, 9, 5, 1}?

- A. 5**
- B. 3
- C. 4
- D. 6

To find the median of a data set, the first step is to arrange the numbers in ascending order. In this case, the data set {3, 7, 9, 5, 1} is arranged as {1, 3, 5, 7, 9}. The median is defined as the middle value in a sorted list. Since there are five numbers in this data set, which is an odd number, the median will be the value located at the third position—the middle number. After sorting, the third number in the ordered list {1, 3, 5, 7, 9} is 5. Thus, the median of the data set is 5. This reflects the central tendency of the data, providing a measure of the middle point around which the other values are distributed. The choice of 5 accurately represents this middle position in the sorted list, confirming its validity as the median.

3. What is the solution for y in the equation $3y + 9 = 0$?

- A. -3**
- B. -6
- C. 0
- D. 3

To solve the equation $3y + 9 = 0$ for y , you start by isolating the term containing y . First, subtract 9 from both sides of the equation: $3y + 9 - 9 = 0 - 9$. This simplifies to: $3y = -9$. Next, to solve for y , divide both sides of the equation by 3: $3y / 3 = -9 / 3$. This results in: $y = -3$. Therefore, the solution for y is -3. This shows that by following the correct steps of rearranging and isolating the variable, you arrive at the correct answer. The other options do not satisfy the original equation when substituted back in, further confirming that the calculated solution is the only one that is correct.

4. What is the square root of 64?

- A. 6
- B. 8**
- C. 10
- D. 12

The square root of a number is defined as a value that, when multiplied by itself, gives the original number. In this case, we are looking for a number that, when squared, equals 64. When you multiply 8 by itself (8×8), the result is 64. This confirms that 8 is indeed the square root of 64. Therefore, the correct answer is 8. To elaborate, squaring the other numbers listed yields these results: 6 squared equals 36, 10 squared equals 100, and 12 squared equals 144, none of which equal 64. Thus, the only viable candidate that satisfies the condition of the square root for this specific problem is 8.

5. If 4 pounds of apples cost \$3.20, what is the cost per pound?

- A. \$0.60
- B. \$0.75
- C. \$0.80**
- D. \$1.00

To find the cost per pound of apples, you can divide the total cost by the total weight in pounds. Here, the total cost for 4 pounds of apples is \$3.20. Start by calculating the cost per pound: $\text{Cost per pound} = \text{Total cost} / \text{Total weight}$ $\text{Cost per pound} = \$3.20 / 4 \text{ pounds}$ When you perform this division, you find: $\text{Cost per pound} = \0.80 This indicates that each pound of apples costs \$0.80. Therefore, the cost per pound matches the calculation, confirming that \$0.80 is indeed the correct answer for the price of one pound of apples.

6. If $\frac{3}{4}$ of a number is 12, what is the number?

- A. 8
- B. 12
- C. 16**
- D. 20

To find the number that, when multiplied by $\frac{3}{4}$, equals 12, we can set up the equation: $\frac{3}{4}x = 12$ To isolate x , we need to eliminate the fraction. This can be achieved by multiplying both sides of the equation by the reciprocal of $\frac{3}{4}$, which is $\frac{4}{3}$: $x = 12 \times \frac{4}{3}$ Calculating the right side involves multiplying 12 by 4, which gives us 48, and then dividing by 3: $x = \frac{48}{3} = 16$ Thus, the number is 16. This shows the correct understanding of how to manipulate equations involving fractions. The other choices would not satisfy the initial equation when substituted in place of x . For example, 8 multiplied by $\frac{3}{4}$ would yield 6, 12 would yield 9, and 20 would yield 15, all of which differ from the given value of 12.

7. What percentage of 340 is 425?

A. 125%

B. 75%

C. 100%

D. 90%

To find out what percentage one number is of another, you can use the formula: $\text{Percentage} = \left(\frac{\text{part}}{\text{whole}} \right) \times 100$. In this scenario, the part is 425, and the whole is 340. Plugging these values into the formula gives: $\text{Percentage} = \left(\frac{425}{340} \right) \times 100$. First, calculate $\frac{425}{340}$: $\frac{425}{340} \approx 1.25$. Next, multiply by 100 to convert it into a percentage: $1.25 \times 100 = 125\%$. This calculation shows that 425 is 125% of 340. This indicates that 425 is 25% more than 340, which makes sense given the numbers involved and demonstrates that the first number (425) significantly exceeds the second (340). Understanding this concept clarifies the relationship between the two numbers, emphasizing that 425 not only surpasses 340 but does so by a notable margin, hence the percentage result of

8. What is the slope of the line represented by the equation $y = 2x + 3$?

A. 1

B. 2

C. 3

D. 4

To determine the slope of the line represented by the equation $y = 2x + 3$, it's essential to understand the standard form of a linear equation, which is often written as $y = mx + b$. In this format, m represents the slope of the line, and b represents the y-intercept. In the given equation, $y = 2x + 3$, you can see that the coefficient of x is 2. This means that the slope (m) of the line is 2. The slope indicates how steep the line is; specifically, it represents the rise over the run, which means for every unit you move to the right on the x-axis, the line rises by 2 units on the y-axis. Understanding the meaning behind the slope helps visualize the graph of this equation: a slope of 2 indicates a relatively steep line that ascends as you move from left to right. This confirms that the correct answer is indeed that the slope of the line is 2.

9. If you purchase a calculator for \$50 and save \$10, what is the percentage discount given?

A. 15%

B. 20%

C. 25%

D. 30%

To find the percentage discount given on the calculator, you first need to determine the amount of the discount relative to the original price. In this case, the calculator costs \$50, and you save \$10. The percentage discount can be calculated using the formula: $\text{Percentage Discount} = \left(\frac{\text{Discount Amount}}{\text{Original Price}} \right) \times 100$. Substituting the values: $\text{Percentage Discount} = \left(\frac{10}{50} \right) \times 100 = \left(0.2 \right) \times 100 = 20\%$. Therefore, the percentage discount given on the calculator is 20%. This means you are saving 20% off the original price of \$50 when you purchase the calculator for \$40 after the discount. The answer chosen correctly identifies this calculation as the discount percentage.

10. If a train travels 60 miles in 1 hour, how far will it travel in 3 hours at the same speed?

A. 180 miles

B. 150 miles

C. 120 miles

D. 240 miles

To determine how far the train will travel in 3 hours at the same speed, we first need to understand the train's speed. If the train travels 60 miles in 1 hour, its speed is 60 miles per hour. To find the distance traveled in 3 hours, we can use the formula: $\text{Distance} = \text{Speed} \times \text{Time}$. Substituting the values into the formula, we have: $\text{Distance} = 60 \text{ miles/hour} \times 3 \text{ hours} = 180 \text{ miles}$. Thus, the train will travel 180 miles in 3 hours at the same speed of 60 miles per hour. This calculation confirms that the correct answer is indeed 180 miles, aligning with the first choice provided.

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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://cxccsecmath.examzify.com>

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

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