

MCA Math Vocabulary 4th Grade Practice Test (Sample)

Study Guide



Everything you need from our exam experts!

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Table of Contents

Copyright	1
Table of Contents	2
Introduction	3
How to Use This Guide	4
Questions	5
Answers	8
Explanations	10
Next Steps	15

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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. What do you call a number like $2 \frac{1}{3}$ that combines a whole number and a proper fraction?**
 - A. Decimal**
 - B. Fraction**
 - C. Improper Fraction**
 - D. Mixed Number**

- 2. Which term means a shape that begins and ends at the same point?**
 - A. Open Figure**
 - B. Angle**
 - C. Closed Figure**
 - D. Rhombus**

- 3. What term describes the distance around the outside of a figure?**
 - A. Perimeter**
 - B. Area**
 - C. Radius**
 - D. Volume**

- 4. Which term describes a polygon with eight sides?**
 - A. Octagon**
 - B. Hexagon**
 - C. Pentagon**
 - D. Kite**

- 5. Which term is defined as a table that uses tally marks to record data?**
 - A. Line plot**
 - B. Tally chart**
 - C. Chart**
 - D. Histogram**

- 6. Which term names an angle that lies on a straight line?**
- A. Acute angle**
 - B. Plot**
 - C. Straight angle**
 - D. Label**
- 7. What does it mean when two outcomes have the same probability?**
- A. Random**
 - B. Balanced Chance**
 - C. Equal Chance**
 - D. Likely**
- 8. Which diagram uses two overlapping circles to show similarities and differences between sets?**
- A. Bar chart**
 - B. Circle diagram**
 - C. Venn diagram**
 - D. Pie chart**
- 9. A triangle with one right angle is called a**
- A. Isosceles triangle**
 - B. Equilateral triangle**
 - C. Acute triangle**
 - D. Right triangle**
- 10. What is the distance from side to side, the shorter dimension of a rectangle, abbreviated with the letter w?**
- A. Length**
 - B. Height**
 - C. Width**
 - D. Depth**

Answers

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

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Explanations

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1. What do you call a number like $2 \frac{1}{3}$ that combines a whole number and a proper fraction?

- A. Decimal**
- B. Fraction**
- C. Improper Fraction**
- D. Mixed Number**

A number that combines a whole number and a fraction is called a mixed number. The whole part shows how many whole units you have, and the fractional part shows a part of another unit. In $2 \frac{1}{3}$, you have two whole units and one third of another unit. The fraction is proper because the top number is smaller than the bottom. Mixed numbers are handy because they keep the whole and the fractional parts together in one form. If you convert it to an improper fraction, you'd do $2 \times 3 + 1 = 7$, giving $\frac{7}{3}$.

2. Which term means a shape that begins and ends at the same point?

- A. Open Figure**
- B. Angle**
- C. Closed Figure**
- D. Rhombus**

The point being tested is understanding when a shape forms a complete loop. When a shape begins and ends at the same point, it's called a closed figure. This means the path around the shape connects all the way back to where it started, with no gaps. Circles, squares, and triangles are common examples of closed figures. In contrast, an open figure has ends that don't meet, like a line segment or a curved arc that doesn't close. A rhombus is a specific kind of closed figure (a four-sided polygon with equal sides), so it would also fit the idea, but the term that describes the general property is closed figure. An angle isn't a closed figure because it's just two rays sharing a vertex and doesn't form a loop.

3. What term describes the distance around the outside of a figure?

- A. Perimeter**
- B. Area**
- C. Radius**
- D. Volume**

Describing the distance around the outside of a figure means measuring the boundary length. That length is called the perimeter. For shapes made of straight sides, you find it by adding up all the side lengths along the edge. For circles, the analogous idea is the circumference—the distance around a curved boundary—which serves the same idea for curved shapes. This is different from area, which is the amount of space inside the boundary, or from radius, which is a line from the center to the edge, and from volume, which measures how much space a 3D object occupies. So the term that describes the distance around the outside is perimeter.

4. Which term describes a polygon with eight sides?

- A. Octagon**
- B. Hexagon**
- C. Pentagon**
- D. Kite**

Eight sides point to an octagon. The name comes from using octa- for eight and -gon for a polygon or corner, a common pattern for naming polygons by number of sides. In geometry, five sides make a pentagon, six sides a hexagon, and a kite is a four-sided figure with a specific shape, not defined by its number of sides. So the term for a polygon with eight sides is octagon.

5. Which term is defined as a table that uses tally marks to record data?

- A. Line plot**
- B. Tally chart**
- C. Chart**
- D. Histogram**

Using tally marks to record data is a tally chart. In this kind of table, you list categories and show the count for each category with tallies. Each tally mark represents one item, and tallies are often grouped in fives to make counting faster and easier to compare at a glance. This setup is different from a line plot, which places data points on a number line; a general chart, which is just any chart; and a histogram, which uses bars to display frequencies across intervals rather than tally marks.

6. Which term names an angle that lies on a straight line?

- A. Acute angle**
- B. Plot**
- C. Straight angle**
- D. Label**

An angle on a straight line is called a straight angle. This happens when the two rays share an endpoint and go in opposite directions along the same line, forming a 180-degree turn along that line. The straight angle is the name for this kind of angle. The other terms don't fit: an acute angle is any angle smaller than 90 degrees, which does not lie along a straight line; a plot is something you graph or map out, not an angle; a label is just a name for a figure, not a type of angle.

7. What does it mean when two outcomes have the same probability?

- A. Random**
- B. Balanced Chance**
- C. Equal Chance**
- D. Likely**

Two outcomes have the same probability means they are equally likely to happen. Probability is the way we measure how often something would occur if you could repeat the situation many times. When both outcomes share the same chance, each one would occur about the same number of times in the long run. For a fair coin, getting heads and getting tails each have a probability of $1/2$, so they are equally likely. If two outcomes didn't share the same probability, one would be more likely than the other, which isn't the case here. The idea of random describes the overall unpredictability of the process, not the relationship between two outcomes, and the word likely usually points to one outcome being more probable than another.

8. Which diagram uses two overlapping circles to show similarities and differences between sets?

- A. Bar chart**
- B. Circle diagram**
- C. Venn diagram**
- D. Pie chart**

Think about how we show relationships between groups. A diagram with two circles that overlap is designed to display what each group has in common and what each one has that the other doesn't. The overlapping part shows elements that belong to both sets (similarities), while the non-overlapping parts show elements unique to each set (differences). That exact idea is what a Venn diagram does when comparing two sets. A bar chart uses bars to compare quantities, not the overlap of groups. A circle diagram isn't specifically about comparing two sets, and a pie chart shows parts of a whole as slices, not the relationship between two groups.

9. A triangle with one right angle is called a

- A. Isosceles triangle**
- B. Equilateral triangle**
- C. Acute triangle**
- D. Right triangle**

Triangles are categorized by their angles. If one angle measures 90 degrees, the triangle is called a right triangle. In a right triangle, the side opposite the 90-degree angle is the longest and is called the hypotenuse, while the other two sides are the legs. The other descriptions describe different ideas: equilateral means all three sides (and angles) are equal, isosceles means two sides are equal, and an acute triangle has all angles less than 90 degrees.

10. What is the distance from side to side, the shorter dimension of a rectangle, abbreviated with the letter w?

- A. Length**
- B. Height**
- C. Width**
- D. Depth**

Width is the distance from one side of a rectangle to the opposite side along its shorter dimension. In rectangles, the longer side is called the length, while the shorter side is the width. Height and depth describe vertical or forward-back dimensions, mainly for 3D shapes. The letter w is the abbreviation used for width. So the term that fits "the distance from side to side, the shorter dimension" is width.

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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://mcamathvocab4thgrade.examzify.com>

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

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