

**MCA Paper Student  
Readiness Tool  
Mathematics and Reading  
Grades 7–8**



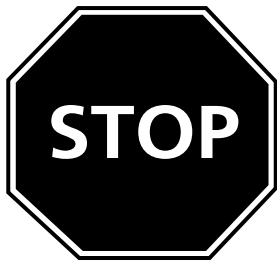


## Symbols on the Test

You will see the following symbols in your test book:



This symbol means you can continue answering questions on the next page.



This symbol means you have finished a segment of the test. You must wait until you are told to go to the next segment.



This symbol indicates where to place the sticker given to you by the Test Monitor to seal a finished segment.



A black-outlined arrow pointing to the right. Inside the arrow, the text "Go on to the next page." is written in a bold, black, sans-serif font.

**Go on to the next page.**

# Mathematics Test General Information

Put sticker  
here

- Your test will contain different segments. Segment pages look like this:

<b>Segment 1</b> You will be told when to begin this segment. You <b>MAY NOT</b> use a calculator for this segment. 	<b>Segment 2</b> You will be told when to begin this segment. You <b>MAY</b> use a calculator for this segment. 

- You are allowed to use a calculator for certain segments of the test. These symbols tell you whether a calculator is allowed.



**Allowed**



**Not Allowed**

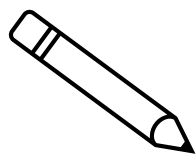
- You can write notes in your test book or on scratch paper, but you must answer each question in the test book.
- Your mathematics test includes multiple-choice and fill-in-the-blank questions.

**Go on to the next page.**

For multiple-choice questions, circle the answer in your test book. The sample below shows you how to do this.

**Sample Question Answered in Test Book:**

Which value is equivalent to  $5\frac{2}{15}$ ?



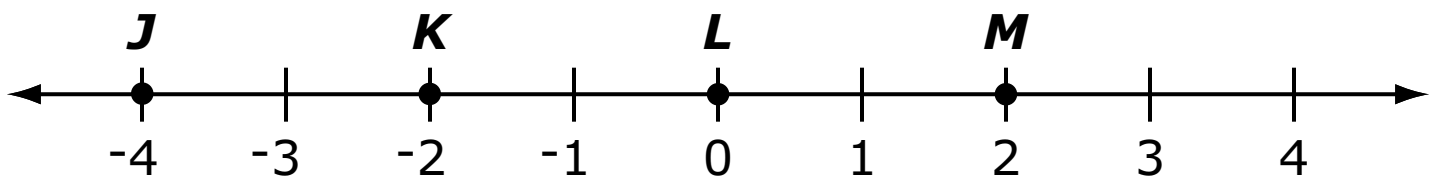
- A.**  $5.1\overline{3}$
- B.**  $5.\overline{13}$
- C.**  $5.13$
- D.**  $5.\overline{3}$

**Go on to the next page.**

## Practice

Practice answering this multiple-choice question by circling option C.

1. Four points are graphed on a line.



Which point is located at 0?

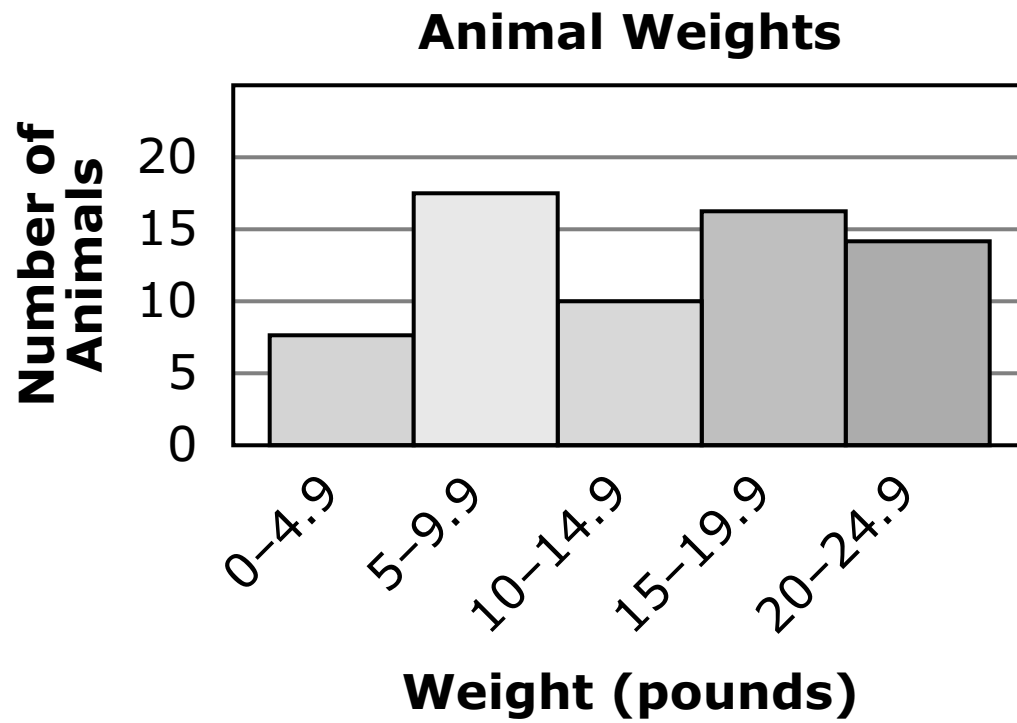
- A. Point *J*
- B. Point *K*
- C. Point *L*
- D. Point *M*

Go on to the next page.

## Practice

Practice answering this multiple-choice question by circling option C.

2. A veterinarian recorded the weights of animals in a histogram.



Which statement about animal weights is true?

- A.** The number of animals that weigh between 0 and 4.9 pounds is 5.
- B.** The number of animals that weigh between 5 and 9.9 pounds is 15.
- C.** The number of animals that weigh between 10 and 14.9 pounds is 10.
- D.** The number of animals that weigh between 15 and 19.9 pounds is 18.

**Go on to the next page.**

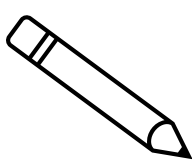
For fill-in-the-blank questions, you will need to write the answer in the space provided. You can also use this space to solve the question. The sample below shows you how to do this.

Note: Every fill-in-the-blank question includes instructions about which numbers and symbols can be used in your answer. It is important to follow these instructions when writing your answers.

### Sample Question Answered in Test Book:

**Please write your answer in the space below the question. You may use the digits: 0–9 and the symbols: slash for a fraction bar (/), a decimal (.), and a negative sign (-). If your answer is a mixed number, you must change it to an improper fraction or a decimal.**

What is  $15,000 + 1$ ?


$$\begin{array}{r} 15000 \\ + \quad \quad 1 \\ \hline 15001 \end{array}$$

**Go on to the next page.**

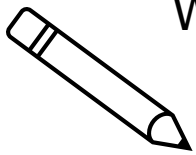


For some fill-in-the-blank questions, you will need to write answers with negative signs and/or decimals. The sample below shows you how to do this.

### Sample Question Answered in Test Book:

**Please write your answer in the space below the question. You may use the digits: 0–9 and the symbols: slash for a fraction bar (/), a decimal (.), and a negative sign (–). If your answer is a mixed number, you must change it to an improper fraction or a decimal.**

What is the decimal equivalent of  $\frac{1}{4} - \frac{2}{4}$ ?



**-0.25**

**Go on to the next page.**

## Practice

Practice answering this question in the space provided by writing  $-0.32$ .

**Please write your answer in the space below the question. You may use the digits: 0–9 and the symbols: slash for a fraction bar (/), a decimal (.), and a negative sign (–). If your answer is a mixed number, you must change it to an improper fraction or a decimal.**

**3.** Subtract.

$$0.30 - 0.62$$

**Go on to the next page.** 

For some fill-in-the-blank questions, the answer may be a mixed number. It is important to change mixed numbers into improper fractions or decimals because a space is not an accepted symbol. If an answer is given as a mixed number, it will be marked as incorrect. The sample below shows you how to answer the question correctly.

### Sample Question Answered in Test Book:

Please write your answer in the space below the question. You may use the digits: 0–9 and the symbols: slash for a fraction bar (/), a decimal (.), and a negative sign (-). If your answer is a mixed number, you must change it to an improper fraction or a decimal.

What is the difference between  $48\frac{5}{8}$  and 47.5?

$$48\frac{5}{8} - 47.5$$

$$48\frac{5}{8} - 47\frac{1}{2}$$

$$48\frac{5}{8} - 47\frac{4}{8} = 1\frac{1}{8}$$

$$1\frac{1}{8} = \frac{9}{8}$$

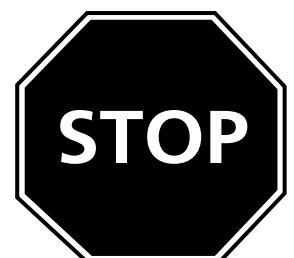
Go on to the next page. 

## Practice

Practice answering this question in the space provided by converting the answer  $81 \frac{1}{4}$  into an improper fraction or a decimal. The improper fraction is  $\frac{325}{4}$ , and the decimal is 81.25.

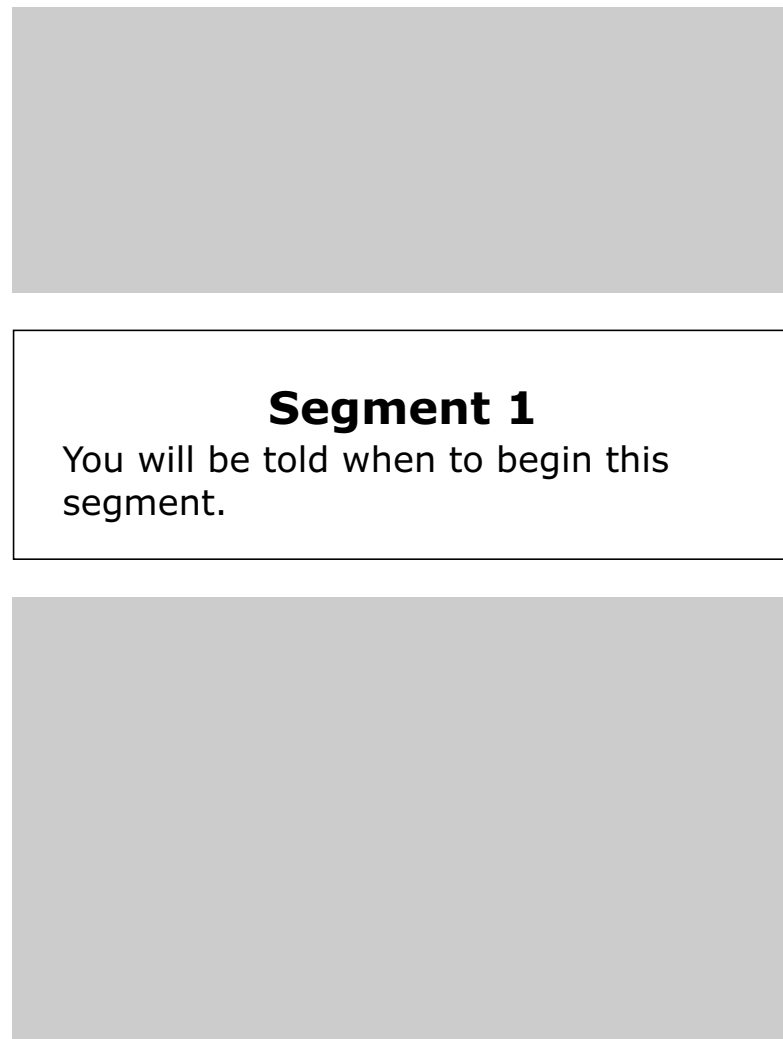
**Please write your answer in the space below the question. You may use the digits: 0–9 and the symbols: slash for a fraction bar (/), a decimal (.), and a negative sign (–). If your answer is a mixed number, you must change it to an improper fraction or a decimal.**

4. Add  $50\frac{3}{4}$  and  $30\frac{1}{2}$ .



## Reading Test General Information

- Your test will contain different segments. Segment pages look like this:



Put sticker  
here

- In each segment, you will read a passage or passages before answering questions. There are different types of passages, such as poems, stories, and articles.
- You can write notes in your test book or on scratch paper, but you must answer each question in the test book.
- Your reading test includes multiple-choice questions only.

**Go on to the next page.**

Instructions are included at the top of each passage. Read the passage. Then answer each multiple-choice question by circling the answer in your test book. The sample below shows you how to do this.

Read this article about bats. Then answer the questions. Some questions may ask you about certain paragraphs. The paragraphs are numbered on the left side.

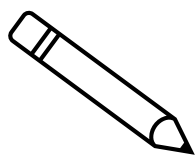
## **Creatures of the Night**

written for the  
Minnesota Department of Education

- 1 What is that flying around in the dark? Is it a bird? Is it a mouse? Is it a flying mouse?
- 2 Popular myths make bats seem frightening. However, they are actually helpful creatures in danger of vanishing. Disease and human beings are threats to bats. Most bats live only ten to twenty years. For these reasons, bats face an uncertain future. Hopefully, people will take notice of these interesting and useful creatures before they disappear from the planet.

### **Sample Question Answered in Test Book:**

According to paragraph 2, how long do most bats live?



- A.** Five to nine years
- B.** Ten to twenty years
- C.** Thirty to forty years
- D.** Fifty to one hundred years

**Go on to the next page.**

## Practice

Practice answering this multiple-choice question by circling option C.

Read this article about bats. Then answer the questions. Some questions may ask you about certain paragraphs. The paragraphs are numbered on the left side.

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### **Creatures of the Night**

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**1.** Which creatures is this article about?

- A.** Mice
- B.** Dogs
- C.** Bats
- D.** Cats

