

# Michigan M-STEP Grade 5 Math Quizzes

*Quick Topic Assessments with Answer Key*

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QUIZ TIME!

# Grade 5 Math Quizzes!

★ Welcome, Math Star! ★

This book is full of **quick math quizzes** to help you practice what you've learned!

Each quiz takes about **15 minutes** and covers one math topic. There are regular questions and a special **Bonus Challenge** at the end.

- ✓ Write your **name** and **date** at the top
- ✓ Read each question **carefully**
- ✓ Show your **work** when you can
- ✓ Try the **Bonus Challenge** — it's extra credit!
- ✓ Check your answers in the **Answer Key**

★ Show What You Know! ★

Every quiz is a chance to shine. You've got this!



CHAPTER

1

# Place Value & Decimals

## ★ What's Inside ★

Quiz 1: Place Value Relationships ..... 2




 CHAPTER 1

# Quiz 1


## Place Value Relationships



Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_ / 8

 **Instructions:** Read each question carefully. Show your work when needed. You have about **15 minutes**.

- 1 Look at the place value chart. What is the value of the digit 7 in 37,052?

Ten Th.	Th.	H	T	O
3	7	0	5	2

↑

Value of the 7: \_\_\_\_\_

- 2 In the number 4,455, there are two 4s and two 5s. How many times greater is the value of the 4 in the **thousands** place than the 4 in the **hundreds** place?

 2

 10

 100

 1,000

- 3 True or False: In the number 66.6, the 6 in the tenths place is worth  $\frac{1}{10}$  the value of the 6 in the ones place.

 True

 False

- 4 The number 5.555 has the digit 5 in every place. **Match** each 5 to its value.



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- 5 in the ones place
  - 5 in the tenths place
  - 5 in the hundredths place
  - 5 in the thousandths place
- 0.005
  - 5
  - 0.5
  - 0.05

- 5 Complete the sentence about the number 2,288.4:

The 2 in the **thousands** place is \_\_\_\_\_ times greater than the 2 in the **hundreds** place.

Answer: \_\_\_\_\_

- 6 What is the value of the digit 6 in 12.368?

- A. 6  
B. 0.6  
C. 0.06  
D. 0.006

- 7 Write  $>$ ,  $<$ , or  $=$  in the circle.

Compare the value of the 9 in these two numbers:

9 in 903



9 in 0.9



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### ★ Bonus Challenge ★

This is extra credit! It's okay if this one is tricky — give it your best try!

8 I am a decimal number with a ones digit, a tenths digit, a hundredths digit, and a thousandths digit. Use these clues to find me:

💡 **Clue 1:** My ones digit is 4.

💡 **Clue 2:** My tenths digit is half my ones digit.

💡 **Clue 3:** My hundredths digit is 3 more than my tenths digit.

💡 **Clue 4:** My thousandths digit is double my tenths digit.

I am the number: \_\_\_\_\_

★ How did you do? ★

😊 I got \_\_\_\_\_ out of \_\_\_\_\_ right!



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CHAPTER

2

# Operations with Decimals

## ★ What's Inside ★

Quiz 2: Add Decimals .....	6
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 CHAPTER 3

# Quiz 2

## Add Decimals

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_ / 8

 **Instructions:** Read each question carefully. Show your work when needed. You have about **15 minutes**.

- 1 Look at the addition problem below. What is the sum?

$$\begin{array}{r} 3 \cdot 4 \ 5 \\ + 2 \cdot 3 \ 8 \\ \hline \end{array}$$

A. 5.73

B. 5.83

C. 6.83

D. 5.93

- 2 Write  $>$ ,  $<$ , or  $=$  in the circle.

$2.7 + 1.8$



$3.6 + 0.7$

- 3 True or False: The addition below is set up **correctly**.

$$\begin{array}{r} 6 \cdot 5 \\ + 0 \cdot 2 \ 3 \\ \hline \end{array}$$

 True

 False

- 4 Complete the addition table.



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+	0.2	0.5	0.9
1.3	_____	_____	_____
4.6	_____	_____	_____

- 5 Use the number line to find  $1.4 + 0.8$ .



$1.4 + 0.8$ : \_\_\_\_\_

- 6 Maya buys a pencil for \$0.85 and an eraser for \$0.45. How much does she spend in all?

$$\text{Pencil } \$0.85 + \text{Eraser } \$0.45 = ?$$

Total: \_\_\_\_\_

- 7 Match each addition problem to its correct answer.

- |                 |        |
|-----------------|--------|
| • $0.6 + 0.7$   | • 1.00 |
| • $0.25 + 0.75$ | • 1.30 |
| • $0.45 + 0.85$ | • 1.30 |



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### ★ Bonus Challenge ★

This is extra credit! It's okay if this one is tricky — give it your best try!

8 Three items at a store cost \$12.50 in total. Two of the items cost \$4.75 and \$3.25. How much does the third item cost?

 **Hint:** First add the two prices you know. Then think about what's left!

 Show your work

Third item costs: \_\_\_\_\_

★ How did you do? ★

 I got \_\_\_\_\_ out of \_\_\_\_\_ right!



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# *Answer Key & Explanations*



## ★ Check Your Answers! ★

First try each quiz on your own, then look here to check.  
Read the explanations to learn from any mistakes ★

### Chapter 1

#### Quiz 1: Place Value Relationships

1 7,000

2 10

3 True

4 ones = 5, tenths = 0.5, hundredths = 0.05, thousandths = 0.005

5 10

6 C (0.06)

7 &gt;

8 4.254

#### 💡 Explanations

1 The digit 7 is in the thousands place, so its value is  $7 \times 1,000 = 7,000$ .

2 The 4 in the thousands place has a value of 4,000. The 4 in the hundreds place has a value of 400.  $4,000 \div 400 = 10$ , so it is 10 times greater.

3 The 6 in the ones place has a value of 6. The 6 in the tenths place has a value of 0.6. Since  $0.6 = 6 \times \frac{1}{10}$ , the tenths digit is  $\frac{1}{10}$  the value of the ones digit. Each place to the right is  $\frac{1}{10}$  of the place to its left.



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4 ones: 5; tenths:  $5 \times \frac{1}{10} = 0.5$ ; hundredths:  $5 \times \frac{1}{100} = 0.05$ ; thousandths:  $5 \times \frac{1}{1,000} = 0.005$ . Each place to the right is  $\frac{1}{10}$  of the one before it.

5 Thousands place value: 2,000. Hundreds place value: 200.  $2,000 \div 200 = 10$ . The digit one place to the left is always 10 times greater.

6 In 12.368: the 3 is in the tenths place, the 6 is in the hundredths place, and the 8 is in the thousandths place. Hundredths means  $6 \times \frac{1}{100} = 0.06$ .

7 In 903, the 9 is in the hundreds place, so its value is 900. In 0.9, the 9 is in the tenths place, so its value is 0.9. Since  $900 > 0.9$ , the left side is greater.

8 Clue 1: ones = 4. Clue 2: tenths =  $4 \div 2 = 2$ . Clue 3: hundredths =  $2 + 3 = 5$ . Clue 4: thousandths =  $2 \times 2 = 4$ . The number is 4.254.

## Chapter 2

### Quiz 2: Add Decimals

1 B (5.83)

2 >

3 False

4 Row 1: 1.5, 1.8, 2.2. Row 2: 4.8, 5.1, 5.5.

5 2.2

6 \$1.30

7  $0.6 + 0.7 = 1.3$ ,  $0.25 + 0.75 = 1.00$ ,  $0.45 + 0.85 = 1.30$

8 \$4.50

### Explanations

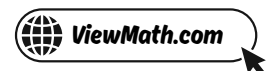
1 Add column by column from right: hundredths  $5 + 8 = 13$  (write 3, carry 1); tenths  $4 + 3 + 1 = 8$ ; ones  $3 + 2 = 5$ . Sum = 5.83.



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2 Left:  $2.7 + 1.8 = 4.5$ . Right:  $3.6 + 0.7 = 4.3$ . Since  $4.5 > 4.3$ , the left side is greater.

3 The number 6.5 should be written as 6.50 so the hundredths column lines up. Without annexing a zero, the columns are misaligned and the answer will be wrong.

4 Add each row value to each column value. For example,  $1.3 + 0.2 = 1.5$ ,  $1.3 + 0.5 = 1.8$ ,  $1.3 + 0.9 = 2.2$ ,  $4.6 + 0.2 = 4.8$ ,  $4.6 + 0.5 = 5.1$ ,  $4.6 + 0.9 = 5.5$ .

5 Start at 1.4. Jump  $+0.4$  to reach 1.8, then  $+0.4$  more to reach 2.2. So  $1.4 + 0.8 = 2.2$ .

6 Line up the decimal points:  $0.85 + 0.45$ . Hundredths:  $5 + 5 = 10$  (write 0, carry 1). Tenths:  $8 + 4 + 1 = 13$  (write 3, carry 1). Ones:  $0 + 0 + 1 = 1$ . Total = \$1.30.

7  $0.6 + 0.7 = 1.3$  matches 1.30.  $0.25 + 0.75 = 1.00$  matches 1.00.  $0.45 + 0.85 = 1.30$  also equals 1.30, so it matches the remaining 1.30.

8 First add the two known prices:  $\$4.75 + \$3.25 = \$8.00$ . Then subtract from the total:  $\$12.50 - \$8.00 = \$4.50$ .



**Great job checking your work!**

*Keep practicing and you'll be a math star!*

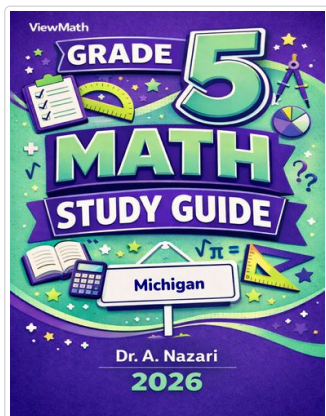


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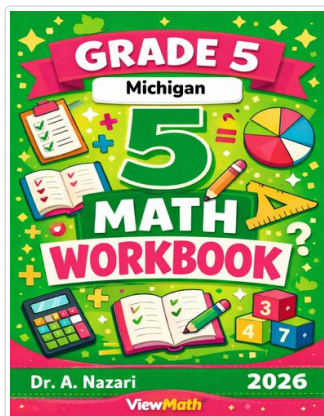
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Study Guide



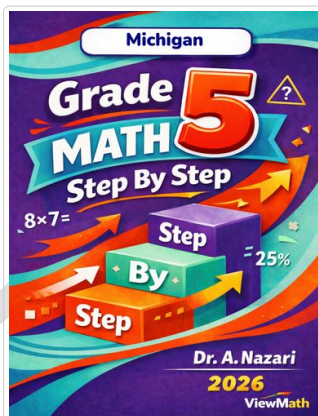
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Workbook



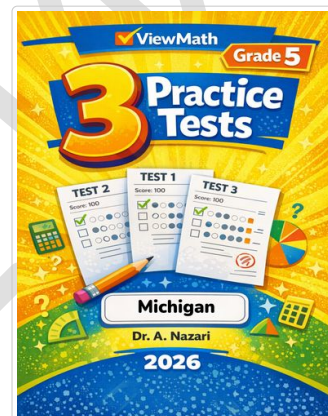
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Step-by-Step



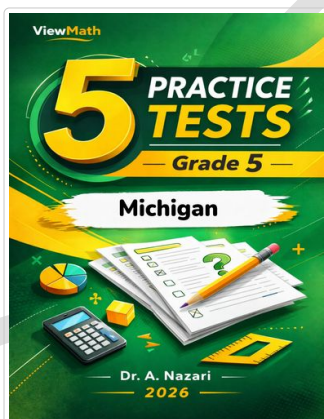
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3 Practice Tests



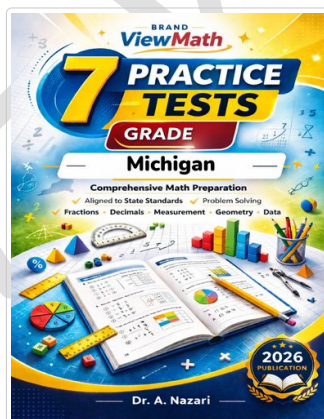
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5 Practice Tests



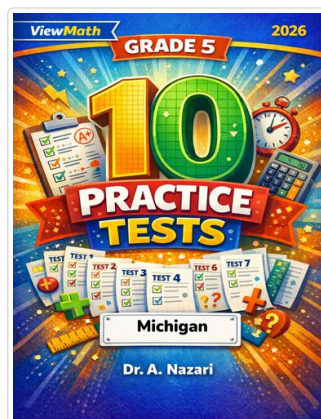
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7 Practice Tests



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10 Practice Tests



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