

Massachusetts MCAS Grade 5 Math Made Easy

Study Guide with Key Concepts, Review & Practice

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Published by View Math Education

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WELCOME TO

Grade 5 Math Study Guide



Hi there, math learner! ★

This study guide has everything you need to learn Grade 5 math. Each topic explains the **key idea**, shows you **examples**, and gives you **practice problems** to try.

Ready? Let's go! 🚀



Learn



Practice



Succeed

CHAPTER

1

Place Value & Decimals

★ *What's Inside* ★

1.1 <i>Place Value Relationships</i>	2
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★ 1.1 Place Value Relationships ★

★ Place Value Relationships ★

🎯 In this lesson you will learn:

- Understand that each digit's value depends on its **position**
- A digit is 10 times the value of the same digit one place to its right
- A digit is $\frac{1}{10}$ the value of the same digit one place to its left

🎓 Every Place Is 10 Times

Each place in a number is 10 **times** the place to its right:

Hundreds	Tens	Ones	.	Tenths	Hundredths	Thousandths
100	10	1		0.1	0.01	0.001

- Moving **left**: the value gets **10 times bigger**.
- Moving **right**: the value gets **10 times smaller** (that's $\frac{1}{10}$).



“ Think of it like a zoom lens. Move left and everything gets 10× bigger. Move right and everything shrinks to $\frac{1}{10}$ the size! ”



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 What Is Each 5 Worth?

In the number **5,555.55**, every digit is a 5 but each has a different value.

1. Thousands: 5,000 Hundreds: 500 Tens: 50 Ones: 5
2. Tenths: 0.5 Hundredths: 0.05
3. 5,000 is $10 \times$ 500, and 500 is $10 \times$ 50 — the pattern continues!

✓ **Answer:** Each 5 is 10 times the 5 to its right.

 Compare Two Digits in 0.777

1. The 7 in the **tenths** place = 0.7.
2. The 7 in the **hundredths** place = 0.07.
3. 0.7 is 10 times 0.07, and 0.07 is $\frac{1}{10}$ of 0.7.

✓ **Answer:** The $\times 10$ pattern works for decimals too!



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 Place Value Relationships Practice

Write the **value** of the underlined digit.

1. $\underline{6}$,482 _____

3. 0. $\underline{4}$ 52 _____

2. 3, $\underline{7}$ 15 _____

4. 0.8 $\underline{6}$ 1 _____

5. In 3,350, the 3 in the thousands place is how many times the value of the 3 in the hundreds place?

6. In 0.66, the 6 in the hundredths place is what fraction of the 6 in the tenths place?



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CHAPTER

2

Operations with Decimals

★ *What's Inside* ★

2.1 *Add Decimals* 6



★ 2.1 Add Decimals ★

★ Add Decimals ★

🎯 In this lesson you will learn:

- Add decimals to the ***hundredths*** place
- Line up ***decimal points*** before adding
- Annex zeros when numbers have different decimal places

🎓 Line Up the Decimal Points!

Adding decimals works just like adding whole numbers. The only extra step:

*Always line up the decimal points
so that digits with the same place
value are in the same column!*



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0.th

3.45

+2.30

5.75

If the numbers have different decimal places, **annex zeros** so they match. For example, write 5.6 as 5.60 before adding to 3.87.



“ Think of the decimal point as a **traffic cone** — everything lines up on either side of it! ”

Add $5.6 + 3.87$

1. Annex a zero: $5.6 \rightarrow 5.60$.

2. Line up and add:

$$\begin{array}{r}
 \begin{array}{cc} 0 & 1 \end{array} \\
 \begin{array}{ccc} 0 & 0 & 5 \\ + & 0 & 0 & 3 \\ \hline 0 & 0 & 9 \end{array}
 \end{array}$$

1. Hundredths: $0 + 7 = 7$.

2. Tenths: $6 + 8 = 14$. Write 4, carry 1.

3. Ones: $5 + 3 + 1 = 9$.



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✓ **Answer:** $5.6 + 3.87 = 9.47$

 **Add** $12.95 + 8.67$

$$\begin{array}{r}
 \overset{1}{0} \overset{1}{1} 2 \\
 + 0 0 8 \\
 \hline
 0 2 1
 \end{array}$$

1. *Hundredths:* $5 + 7 = 12$. Write 2, carry 1.
2. *Tenths:* $9 + 6 + 1 = 16$. Write 6, carry 1.
3. *Ones:* $2 + 8 + 1 = 11$. Write 1, carry 1.
4. *Tens:* $1 + 0 + 1 = 2$.

✓ **Answer:** $12.95 + 8.67 = 21.62$



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 Add Decimals Practice

1. $3.42 + 5.36 =$ _____

3. $6.3 + 2.48 =$ _____

2. $7.15 + 2.64 =$ _____

4. $4 + 2.89 =$ _____

5. $3.94 + 8.08 + 1.53 =$ _____

6. Jake ran 2.4 km on Monday and 3.75 km on Tuesday. How far did he run in total?

Answer: _____ km



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