

# Colorado CMAS Grade 5 Math Made Easy

*Study Guide with Key Concepts, Review & Practice*

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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* ★

|                                                   |          |
|---------------------------------------------------|----------|
| <b>1.1</b> <i>Place Value Relationships</i> ..... | <b>2</b> |
|---------------------------------------------------|----------|

## ★ 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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$O.th$ 

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:

$$\begin{array}{r} \phantom{0}^0 \phantom{0}^1 \phantom{0}^5 \\ 0 \phantom{0} 0 \phantom{0} 5 \\ + 0 \phantom{0} 0 \phantom{0} 3 \\ \hline 0 \phantom{0} 0 \phantom{0} 9 \end{array}$$

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**  $12.95 + 8.67$

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

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.  $4 + 2.89 =$  \_\_\_\_\_

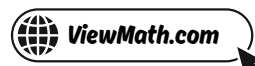
5.  $3.94 + 8.08 + 1.53 =$  \_\_\_\_\_

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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