

# Ohio OST Grade 5 Math Step by Step

*A Beginner Friendly Guide to Learning Math*

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STEP BY STEP

# Grade 5 Math Made Easy!

Hi there, math superstar! ★

This book teaches you Grade 5 math **one step at a time**.

Every topic shows you a clear set of steps, then you practice using those steps until they feel easy!

- ✓ Follow the **steps** — they're your recipe!
- ✓ Try the **examples** along the way!
- ✓ Mistakes help you **learn**!

Ready to take it step by step? Let's go! 🚀

“I'm Owlbert! I'll guide you through every step. Just follow along!”



CHAPTER

1

# Place Value & Decimals

## ★ What's Inside ★

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## ★ 1.1 Place Value Relationships ★

### What You'll Learn

- Explain how each digit's value is 10 times the digit to its right
- Find the value of a digit based on its place
- Compare the values of the same digit in different places

### Words to Know

- ▶ **Place Value** — How much a digit is worth based on where it sits in a number.
- ▶ **Digit** — One of the symbols 0–9 used to write numbers.
- ▶ **Value** — The amount a digit represents because of its position.

### How to Find and Compare Digit Values

- 1 Find the digit's **place** — ones, tens, hundreds, thousands, tenths, hundredths, or thousandths.
- 2 Each place is 10 **times** the place to its right and  $\frac{1}{10}$  of the place to its left.
- 3 Multiply the digit by its **place value** to find what it's worth.



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*Example: In 3,550, how does the value of the 5 in the hundreds place compare to the 5 in the tens place?*

**Step 1** Find each digit's place:

The first 5 is in the **hundreds** place. The second 5 is in the **tens** place.

**Step 2** Hundreds is one place to the left of tens, so it is 10 times greater.

**Step 3** Find the values:  $5 \times 100 = 500$  and  $5 \times 10 = 50$ .

✓ *The 5 in the hundreds place is 10 times the 5 in the tens place (500 vs. 50).*

*Example: In 0.777, compare the 7 in the tenths place to the 7 in the thousandths place.*

**Step 1** The first 7 is in the **tenths** place. The third 7 is in the **thousandths** place.

**Step 2** Tenths is two places to the left of thousandths:  $10 \times 10 = 100$  times greater.

**Step 3** Values:  $7 \times 0.1 = 0.7$  and  $7 \times 0.001 = 0.007$ .

✓ *The 7 in the tenths place is 100 times the 7 in the thousandths place.*

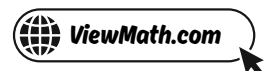
**⚠ Watch Out!** The same digit can mean very different things! The 4 in 4,000 is worth 4,000, but the 4 in 0.04 is only worth 0.04.



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## Place Value Relationships Practice

### Identify the Place

1. What place is the 6 in 6,432? \_\_\_\_\_
2. What place is the 8 in 3.482? \_\_\_\_\_

### Compare Digit Values

3. In 2,255, the 2 in the thousands place is how many times the 5 in the tens place? \_\_\_\_\_
4. In 0.66, the 6 in the tenths place is how many times the 6 in the hundredths place? \_\_\_\_\_

### Find the Value

5. Value of 9 in 9,301: \_\_\_\_\_
6. Value of 4 in 0.245: \_\_\_\_\_
7. Mia says the 5 in 5,500 and the 5 in 550 are worth the same. Is she right? Explain.

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



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CHAPTER

2

# Operations with Decimals

## ★ What's Inside ★

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## ★ 2.1 Add Decimals ★

### What You'll Learn

- Add decimals to the hundredths place
- Line up decimal points and annex zeros before adding

### Words to Know

- ▶ **Decimal point** — The dot that separates the whole-number part from the fractional part.
- ▶ **Annex zeros** — Adding zeros to the end of a decimal so both numbers have the same number of decimal places.
- ▶ **Regroup** — When a column adds to 10 or more, carry the extra to the next column.

### How to Add Decimals

- 1 Write the numbers vertically and **line up the decimal points**.
- 2 **Annex zeros** so both numbers have the same number of decimal places.
- 3 **Add** each column from right to left, regrouping when a column totals 10 or more.
- 4 **Bring down** the decimal point into the answer.



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*Example: Add  $5.6 + 3.87$ .*

**Step 1** Write vertically, decimal points lined up.

**Step 2** Annex a zero:  $5.6 \rightarrow 5.60$ .

**Step 3** Add right to left: hundredths  $0+7 = 7$ ; tenths  $6+8 = 14$ , write 4, carry 1; ones  $5+3+1 = 9$ .

**Step 4** Bring down the decimal point.

$$\checkmark 5.6 + 3.87 = 9.47$$

*Example: Add  $12.95 + 8.67$ .*

**Step 1** Write vertically, decimal points aligned.

**Step 2** Both have two decimal places — no zeros needed.

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

**Step 4** Bring down the decimal point.

$$\checkmark 12.95 + 8.67 = 21.62$$

**⚠ Watch Out!** Don't line up the last digits — line up the **decimal points!**  $3.9 + 0.14$  is NOT 3.9 over 0.14 matched at the right. Write  $3.90 + 0.14$ .



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## Add Decimals Practice

### Line Up and Annex Zeros

1.  $4.3 + 2.56 =$  \_\_\_\_\_

2.  $8 + 1.47 =$  \_\_\_\_\_

### Add With Regrouping

3.  $6.78 + 5.94 =$  \_\_\_\_\_

4.  $9.85 + 3.67 =$  \_\_\_\_\_

### Put It All Together

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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