

# West Virginia WVGSA Grade 4 Math Made Easy

*Study Guide with Key Concepts, Review & Practice*

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Published by View Math Education

ViewMath.com

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YOUR QUICK REFERENCE

# Grade 4 Math Made Easy

Hey there, math learner! ★

This study guide gives you the **core ideas**, **clear examples**, and **practice problems** for every Grade 4 math topic — all in one compact book.

Need a refresher? Flip to any topic.

Want to practice? Every section has problems with answers.

Let's dive in! 🚀



*Read*



*Practice*



*Master*

# *How to Use This Book*

*Each topic follows the same simple pattern.*

## *Key Concept*

*The main idea, explained simply. Understand this and the rest clicks into place.*

## *Worked Examples*

*Step-by-step solutions that show you exactly how it's done. Try covering the answer first!*

## *Practice Problems*

*Your turn to solve! Every problem has an answer in the back of the book.*



## *Owlbert's Tips*

*Memory tricks, shortcuts, and “watch out” warnings from your study buddy Owlbert.*

***Study Tip:*** *Focus on one topic at a time. Understanding beats rushing — take the time you need!*

# X<sup>1</sup> Math Symbols You Should Know X<sup>1</sup>

Keep this page handy as you work through the book!

| Symbol        | Name                | What It Means                                         |
|---------------|---------------------|-------------------------------------------------------|
| +             | Plus (Add)          | Combine amounts. $4,521 + 3,089 = 7,610$              |
| -             | Minus (Subtract)    | Find the difference. $6,003 - 1,457 = 4,546$          |
| ×             | Times (Multiply)    | Repeated groups. $36 \times 24 = 864$                 |
| ÷             | Divide              | Split equally. $91 \div 7 = 13$                       |
| =             | Equals              | Same value on both sides. $\frac{3}{6} = \frac{1}{2}$ |
| > <           | Greater / Less Than | Compares two values. $\frac{3}{4} > \frac{2}{5}$      |
| $\frac{a}{b}$ | Fraction Bar        | $a$ parts out of $b$ equal parts.                     |
| .             | Decimal Point       | Separates wholes from parts. $0.75 = \frac{75}{100}$  |
| ∠             | Angle               | Two rays sharing a vertex. $\angle ABC = 45^\circ$    |

## Key Math Words for Grade 4

- **Factor** — number you multiply by
- **Product** — answer when you multiply
- **Quotient** — answer when you divide
- **Remainder** — left over after dividing
- **Prime** — only 1 and itself as factors
- **Composite** — more than two factors
- **Numerator** — top of a fraction
- **Denominator** — bottom of a fraction
- **Equivalent** — same value, different form
- **Mixed Number** — whole + fraction
- **Perimeter** — distance around a shape
- **Area** — space inside a shape

# *Contents*



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CHAPTER

1

# *Multiply, Divide, and Patterns*

## ★ *What's Inside* ★

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## ★ 1.1 Multiplication as a Comparison ★

### 🎯 In this lesson you will learn:

- Understand what “times as many” means
- Write multiplication equations from comparison sentences
- Read statements like “35 is 5 times as many as 7”

### 🎓 What Does “Times As Many” Mean?

When we say “3 **times as many**,” we mean a number is multiplied by 3.

#### Example:

- Sam has 4 stickers.
- Mia has 3 times as many stickers as Sam.
- Mia has  $3 \times 4 = 12$  stickers.



Mia has 3 groups of 4. That's 12!

**Key idea:** “Times as many” always means **multiply**. “More than” means **add**. They are NOT the same!



“ If you see the words “times as many,” grab your multiplication skills! ”



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 **Reading a Comparison Sentence**

*"24 is 6 times as many as 4."*

1. Find the two numbers being compared: 24 and 4.
2. The multiplier is 6.
3. Check:  $6 \times 4 = 24$  ✓

✓ **Answer:**  $6 \times 4 = 24$

 **Writing a Comparison Equation**

*Jake has 5 toy cars. Emma has 4 times as many toy cars as Jake. How many toy cars does Emma have?*

1. Jake has 5 cars (the smaller amount).
2. Emma has 4 times as many.
3. Multiply:  $4 \times 5 = 20$

✓ **Answer:** Emma has 20 toy cars.



 *Multiplication as a Comparison — Practice* 

1. 6 times as many as 3 = \_\_\_\_\_

3. 8 times as many as 5 = \_\_\_\_\_

2. 4 times as many as 7 = \_\_\_\_\_

4.  $3 \times$  \_\_\_\_\_ = 21

5. Ben has 6 baseball cards. Luis has 4 times as many baseball cards as Ben. How many baseball cards does Luis have?

**Answer:** \_\_\_\_\_ cards

6. A tree is 9 feet tall. A building is 7 times as tall as the tree. How tall is the building?

**Answer:** \_\_\_\_\_ feet



CHAPTER

2

# *Adding, Subtracting, Multiplying, and Dividing Whole Numbers*

## ★ *What's Inside* ★

|                             |   |
|-----------------------------|---|
| 2.1 Add Whole Numbers ..... | 6 |
|-----------------------------|---|

## ★ 2.1 Add Whole Numbers ★

### 🎯 In this lesson you will learn:

- Add multi-digit whole numbers using the standard algorithm
- Regroup (carry) when a column adds to 10 or more
- Add numbers up to the thousands place

### 🎓 The Standard Addition Algorithm

To add multi-digit numbers, **line up the digits by place value** and add column by column from right to left.

$$\begin{array}{r} \overset{1}{3} \quad \overset{1}{4} \quad 7 \\ + 2 \quad 8 \quad 5 \\ \hline 6 \quad 3 \quad 2 \end{array}$$

**Regrouping (carrying):** When a column adds to 10 or more, write the ones digit and **carry** the tens digit to the next column.

- Ones:  $7 + 5 = 12$ . Write 2, carry 1.
- Tens:  $4 + 8 + 1 = 13$ . Write 3, carry 1.
- Hundreds:  $3 + 2 + 1 = 6$ .



“ Always start from the **right** (ones column) and work left. Don't forget to add any carried digits! ”



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 **Add Without Regrouping:**  $432 + 251$ 

1. *Ones:*  $2 + 1 = 3$
2. *Tens:*  $3 + 5 = 8$
3. *Hundreds:*  $4 + 2 = 6$

✓ **Answer:**  $432 + 251 = 683$

 **Add Four-Digit Numbers:**  $3,748 + 2,695$ 

1. *Ones:*  $8 + 5 = 13$ . Write 3, carry 1.
2. *Tens:*  $4 + 9 + 1 = 14$ . Write 4, carry 1.
3. *Hundreds:*  $7 + 6 + 1 = 14$ . Write 4, carry 1.
4. *Thousands:*  $3 + 2 + 1 = 6$ .

✓ **Answer:**  $3,748 + 2,695 = 6,443$



 *Add Whole Numbers Practice* 

1.  $524 + 361 =$  \_\_\_\_\_

3.  $2,456 + 3,387 =$  \_\_\_\_\_

2.  $739 + 148 =$  \_\_\_\_\_

4.  $4,809 + 1,763 =$  \_\_\_\_\_

5. A school collected 1,258 cans in January and 1,475 cans in February. How many cans were collected in all? \_\_\_\_\_

6. The library has 3,692 fiction books and 2,548 non-fiction books. How many books does the library have in total? \_\_\_\_\_



THANK YOU

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