

# Kansas KAP Grade 3 Math Made Easy

*Study Guide with Key Concepts, Review & Practice*

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WELCOME TO

# Grade 3 Math Study Guide



Hi there, math learner! ★

This study guide has everything you need to learn Grade 3 math. Each topic explains the **key idea**, shows you **examples**, and gives you **practice problems** to try.

Ready? Let's go! 🚀



Learn



Practice



Succeed

# *How to Use This Book*

*Here's what you'll find inside each topic!*

## *Key Concept*

*The main idea explained clearly. Read this first to understand the topic.*

## *Examples*

*See how to solve problems step by step. Follow along carefully!*

## *Practice*

*Try problems on your own! Answers are in the back of the book.*

## *Owl Tips*

*Look for Owl's tips — they help you remember important tricks!*

**Tip:** *Work through one topic at a time. Don't rush  
— understanding is more important than speed!*

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

*You'll see these symbols throughout this book!*

| Symbol        | Name             | What It Means                                               |                   |
|---------------|------------------|-------------------------------------------------------------|-------------------|
| +             | Plus (Add)       | Put numbers together.                                       | $3 + 5 = 8$       |
| -             | Minus (Subtract) | Take away from a number.                                    | $9 - 4 = 5$       |
| ×             | Times (Multiply) | Add equal groups.                                           | $4 \times 3 = 12$ |
| ÷             | Divide           | Split into equal groups.                                    | $12 \div 3 = 4$   |
| =             | Equals           | Both sides are the same.                                    | $2 + 3 = 5$       |
| >             | Greater Than     | The left number is bigger.                                  | $7 > 3$           |
| <             | Less Than        | The left number is smaller.                                 | $2 < 9$           |
| $\frac{1}{2}$ | Fraction Bar     | Part of a whole. $\frac{1}{2}$ means 1 out of 2 equal parts |                   |

## “ Remember the Alligator! ”



The **greater than** (>) and **less than** (<) symbols are like an alligator's mouth. The alligator always wants to eat the **bigger** number!

$$8 > 3$$

8 is greater than 3

$$2 < 9$$

2 is less than 9

 **Key Math Words for Grade 3**

- **Sum** — the answer when you add
- **Difference** — the answer when you subtract
- **Product** — the answer when you multiply
- **Quotient** — the answer when you divide
- **Factor** — a number you multiply
- **Array** — objects in rows and columns
- **Fraction** — a part of a whole
- **Numerator** — the top number in a fraction
- **Denominator** — the bottom number
- **Equation** — a math sentence with =
- **Estimate** — a smart guess, close to the real answer
- **Perimeter** — the distance around a shape
- **Area** — the space inside a shape
- **Rounding** — making a number simpler by going to the nearest ten or hundred



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PREVIEW

CHAPTER

1

## *Number Sense & Place Value*

### ★ *What's Inside* ★

|                                                           |          |
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## ★ 1.1 Place Value: Ones, Tens, Hundreds ★

### 🎯 In this lesson you will learn:

- Understand that a digit's value depends on its position
- Identify the ones, tens, and hundreds places
- Write numbers in expanded form

### 🎓 What Is Place Value?

**Place value** tells us how much a digit is worth based on where it sits in a number.

Look at the number **527**:

| H | T | O |
|---|---|---|
| 5 | 2 | 7 |

- The **5** is in the **hundreds** place → 500
- The **2** is in the **tens** place → 20
- The **7** is in the **ones** place → 7

**Expanded form:**  $527 = 500 + 20 + 7$

A **0** is a placeholder. In 308, the 0 means zero tens:  $308 = 300 + 0 + 8$ .



“ Think of place value like floors in a building! Ones are on the first floor, tens on the second, hundreds on the top. Higher floor = bigger value! ”



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 **Show 364 with Base-Ten Blocks**

1. 3 hundreds = 300
2. 6 tens = 60
3. 4 ones = 4

✓ **Answer:**  $364 = 300 + 60 + 4$

 **What Is the Value of 6 in 461?**

1. Find which place the 6 is in: **tens**
2. The tens place means we multiply by 10

✓ **Answer:** The value of 6 in 461 is 60.

 **Place Value Practice** 

1. What is the value of 3 in 382? \_\_\_\_\_
2. What is the value of 6 in 561? \_\_\_\_\_
3. Write 259 in expanded form: \_\_\_\_\_
4. Write the number for  $600 + 30 + 9$ : \_\_\_\_\_



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5. Write 406 in expanded form: \_\_\_\_\_

6. Lily has 3 hundred-dollar bills, 5 ten-dollar bills, and 2 one-dollar bills. How much money does Lily have?

**Answer:** \_\_\_\_\_ dollars



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CHAPTER

2

## *Multiplication & Division*

### ★ *What's Inside* ★

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## ★ 2.1 Understanding Multiplication ★

### 🎯 In this lesson you will learn:

- Understand multiplication as counting equal groups
- Read and write multiplication sentences
- Use arrays and dot groups to show multiplication

### 🎓 What Is Multiplication?

**Multiplication** is a fast way to add **equal groups**.

$3 \times 4$  means “3 groups of 4”:

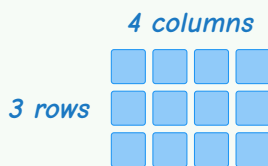


Instead of adding  $4 + 4 + 4 = 12$ , we simply write  $3 \times 4 = 12$ .

$$\underbrace{5}_{\text{groups}} \times \underbrace{7}_{\text{in each}} = \underbrace{35}_{\text{total}}$$

The numbers we multiply are called **factors**. The answer is called the **product**.

We can also show multiplication as an **array** (rows and columns):



3 rows of 4 = 12



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“ Think about it this way: the first number tells you HOW MANY groups, and the second tells you HOW MANY in each group! ”

### Show $2 \times 6$ with Equal Groups

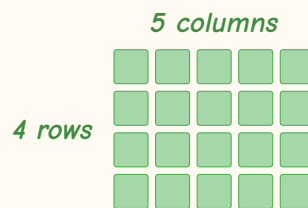
$2 \times 6$  means “2 groups of 6”:



1. We have 2 groups with 6 in each group
2. As repeated addition:  $6 + 6 = 12$

✓ **Answer:**  $2 \times 6 = 12$

### Write a Multiplication Sentence for an Array



1. Count the rows: 4 rows
2. Count the columns: 5 in each row
3. Write the sentence:  $4 \times 5$

✓ **Answer:**  $4 \times 5 = 20$



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## ✎ Multiplication Practice ✎

1. Write the multiplication sentence:



\_\_\_\_\_

2. Write the multiplication sentence:



\_\_\_\_\_

3. Write as multiplication:  $6 + 6 + 6 + 6 =$  \_\_\_\_\_  $\rightarrow$  \_\_\_\_\_

4.  $5 \times 3 =$  \_\_\_\_\_

5.  $4 \times 4 =$  \_\_\_\_\_

6. There are 5 bags with 4 apples in each bag. How many apples are there in all?

**Answer:** \_\_\_\_\_ apples



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