

Alaska AK STAR Grade 3 Math in 30 Days

Day by Day Study Plan for Test Prep

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★ Welcome, Math Superstar! ★

You're about to go on an amazing 30-day math adventure!

📖 *How This Book Works* 📖

- 📅 *One lesson each day — just 25–35 minutes!*
- 📖 *Learn the key concept at the start of each day*
- ✎ *Practice problems help you master each topic*
- 🏆 *Daily challenges push you to think harder*
- ✅ *Check off each day when you're done!*
- 📅 *All 30 days are learning days — no wasted time!*

Tips for Success

- ✓ *Study at the same time each day*
- ✓ *Find a quiet place to work*
- ✓ *Have pencils and scratch paper ready*
- ✓ *Don't skip days — even 10 minutes helps!*
- ✓ *Ask a grown-up if you get stuck*

★ *Let's do this!* ★



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How to Use This Book

Look for these special sections every day!

Today's Goals

Every day starts with a list of what you'll learn. These are your targets for the day!

Quick Lesson

The big idea explained in a short, easy lesson. Read this carefully before doing problems!

Daily Practice

Your turn! Try these problems on your own. They help you master each day's topic.

Daily Challenge

A brain-buster problem to push you further! Give it your best try — it's okay if it's tough.



Owlbert Says

Your owl friend Owlbert pops in with tips, tricks, and encouragement. Listen to Owlbert!

Bonus Lesson

Some editions include bonus topics for your state. Look for these teal boxes after certain days!



Day Complete!

At the end of each day, you'll see a celebration banner. Check it off on your Progress Tracker!

Watch Out!

Common mistakes to avoid. Everyone makes them — but now you won't!

✔ *Answers to all practice problems are in the **Answer Key** at the back of the book!*

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Your 30-Day Plan

Here's everything you'll learn — one day at a time!

Days 1–8: Numbers & Computation

- | | |
|--|---|
| Day 1 Place Value: Ones, Tens, Hundreds | Day 2 Place Value: Thousands |
| Day 3 Comparing, Ordering & Even/Odd | Day 4 Rounding to Nearest 10 and 100 |
| Day 5 Adding 3-Digit Numbers | Day 6 Subtracting 3-Digit Numbers |
| Day 7 Adding & Subtracting 4-Digit | Day 8 Estimating Sums & Differences |

Days 9–16: Multiplication & Division

- | | |
|---|---|
| Day 9 Understanding Multiplication | Day 10 Multiplication Facts 0–10 |
| Day 11 Multiply by 10/100 & Properties | Day 12 Understanding Division |
| Day 13 Division Facts & Relating \times/\div | Day 14 Missing Numbers & Word Problems |
| Day 15 Two-Step Word Problems | Day 16 Patterns in Tables |

Days 17–20: Fractions

- | | |
|---|--|
| Day 17 Understanding Fractions | Day 18 Fractions on Number Line & Units |
| Day 19 Building & Equivalent Fractions | Day 20 Whole Numbers as Fractions & Comparing |

Days 21–30: Measurement, Money, Data & Geometry

- | | |
|--|--|
| Day 21 Telling Time & Elapsed Time | Day 22 Measuring Length |
| Day 23 Mass, Weight & Liquid Volume | Day 24 Money: Counting, Adding, Subtracting |
| Day 25 Picture & Bar Graphs | Day 26 Line Plots |
| Day 27 2D Shapes & Attributes | Day 28 3D Shapes |
| Day 29 What Is Area? & Finding Area | Day 30 Perimeter & Partitioning Shapes |

| | | |
|---|--|---|
| 1 | <i>Numbers & Computation</i> | 1 |
| | Day 1: <i>Place Value</i> | 2 |
| 2 | <i>Multiplication & Division</i> | 5 |
| | Day 9: <i>Understanding Multiplication</i> | 6 |

Contents



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WEEK

1

Numbers & Computation

This Week's Days

Day 1: Place Value 2





DAY

1

Place Value

Today You Will Learn

- ✓ Know what ones, tens, and hundreds mean
- ✓ Write numbers in expanded form

 Your Progress: Day 1 of 30



★ Let's make today count! ★



 About 20 minutes **Key Concept**

What Is Place Value? **Place value** tells us how much a digit is worth based on where it sits.

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

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

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

 **What is the value of 8 in 482?**

The 8 is in the **tens** place, so it means $8 \times 10 = 80$.

 **Answer:** The value is 80.



“ Digits are like floors in a building — ones on floor 1, tens on floor 2, hundreds on floor 3! ”

 **Practice Time!**

1. Write 364 in expanded form: _____
2. Write 809 in expanded form: _____
3. The value of 3 in 358 is _____
4. The value of 4 in 742 is _____



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5. $600 + 70 + 3 =$ _____

6. $400 + 20 + 9 =$ _____

 **Daily Challenge!**

7. *My hundreds digit is 6, my ones digit is 3, and my tens digit is double my ones digit. What number am I?* _____



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WEEK

2

Multiplication & Division

 *This Week's Days* 

Day 9: Understanding Multiplication 6





DAY

9

Understanding Multiplication

Today You Will Learn

- ✓ Know that multiplication means equal groups
- ✓ Write multiplication sentences from pictures

 Your Progress: Day 9 of 30

10%

★ Let's make today count! ★



 About 20 minutes **Key Concept**

What Is Multiplication? **Multiplication** is a shortcut for **adding equal groups**.

3×4 means "3 groups of 4."

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



Key words: **factor** \times **factor** = **product**. $3 \times 4 = 12$.

 **5×3**

5 groups of 3: $3 + 3 + 3 + 3 + 3 = 15$

 **Answer:** $5 \times 3 = 15$



“ Multiplication is just skip counting! 3×4 means count by 4s three times: 4, 8, 12! ”

 **Practice Time!**

- $4 \times 2 =$ _____
- $3 \times 5 =$ _____
- $6 \times 3 =$ _____
- Write a multiplication sentence: "7 groups of 2" = _____
- There are 4 bags with 5 apples in each. How many apples total? _____



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6. Each table seats 6 students. There are 3 tables. How many students? _____

 **Daily Challenge!**

7. You can write 24 as a product of two numbers in several ways. Find three different ways.



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- ✓ *Hundreds of practice problems*
- ✓ *Complete answer key with explanations*
- ✓ *Colorful visuals and step-by-step examples*
- ✓ *Reference sheets and progress trackers*

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