

Alaska AK STAR Grade 4 Math in 30 Days

Day by Day Study Plan for Test Prep

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Grade 4 Math in 30 Days



One topic a day. Thirty days. The entire grade.

This book breaks all of Grade 4 math into 30 bite-sized lessons. Each day takes about 25–35 minutes and covers a quick lesson, practice problems, and a daily challenge.

- ✓ *Small daily steps add up to **big** results.*
- ✓ *Consistency beats cramming — every time.*
- ✓ *You only need 30 days. Let's start today!*

Day 1 is waiting! 🚀

“ I'll be here every day with tips and encouragement.

Thirty days from now, you'll be amazed at how much you've learned! ”



How to Use This Book

Every day follows the same simple pattern.

Today's Goals

Each day starts with clear goals so you know exactly what you're learning today.

Quick Lesson

A short, focused explanation of the day's topic. Read it carefully — this is the core idea.

Daily Practice

Practice problems to reinforce today's lesson. Try them all before checking answers!

Daily Challenge

A bonus problem that pushes you a little further. Give it a try — it's okay if it's tough!



Owlbert Says

Tips, tricks, and encouragement from your daily study buddy!



Watch Out!

Common mistakes to avoid. Learn these and you'll save time on tests!



Answers to every problem are in the **Answer Key** at the back!

Your 30-Day Plan

Here's where your journey takes you — one day at a time!

Days 1–8: Multiply, Divide, Patterns & Place Value

- | | |
|----------------------------------|---------------------------------|
| 1 Multiplication as a Comparison | 5 Number and Shape Patterns |
| 2 Comparison Word Problems | 6 Place Value & Expanded Form |
| 3 Multi-Step Word Problems | 7 Compare Numbers & $\times 10$ |
| 4 Factors, Multiples, & Primes | 8 Rounding Whole Numbers |

Days 9–12: Whole Number Arithmetic

- | | |
|-----------------------------------|--|
| 9 Add & Subtract Whole Numbers | 11 Multiply Two-Digit $\times$ Two-Digit |
| 10 Multiply by a One-Digit Number | 12 Divide with Remainders & Estimate |

Days 13–20: Fractions & Decimals

- | | |
|----------------------------------|--|
| 13 Equal Fractions | 17 Add & Subtract Mixed Numbers |
| 14 Compare Fractions | 18 Multiply Fraction $\times$ Whole Number |
| 15 Build & Break Apart Fractions | 19 Tenths, Hundredths, & Decimals |
| 16 Add & Subtract Fractions | 20 Compare Decimals |

Days 21–30: Measurement, Data & Geometry

- | | |
|------------------------------|-----------------------------------|
| 21 Metric & Customary Units | 26 Add & Subtract Angles |
| 22 Measurement Word Problems | 27 Lines, Rays, & Angle Types |
| 23 Area & Perimeter | 28 Parallel & Perpendicular Lines |
| 24 Line Plots with Fractions | 29 Classify Shapes |
| 25 Angles: Intro & Measure | 30 Symmetry & Review |



“ You don’t have to be perfect on Day 1. The whole point is to get a little better every day. By Day 30, you’ll look back and realize how far you’ve come! ”

PREVIEW



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WEEK

1

Multiply, Divide, Patterns & Place Value



This Week's Days



Multiplication as a Comparison





DAY

1

Multiplication as a Comparison

📖 Today You Will Learn 📖

- ✓ Understand “times as many” statements
- ✓ Write multiplication equations from comparisons

📊 Your Progress: Day 1 of 30



★ Let's make today count! ★



 Key Concept

What Does “Times as Many” Mean? When we say “35 is 5 **times as many** as 7,” we mean:

$$5 \times 7 = 35$$

A **multiplicative comparison** tells how many times bigger one amount is than another.

Pattern: A is n times as many as $B \Rightarrow A = n \times B$

Examples:

- “24 is 4 times as many as 6” means $4 \times 6 = 24$.
- “Tom has 3 times as many cards as Lily” means Tom’s cards = $3 \times$ Lily’s cards.

“Times as many” always means multiply! Don’t confuse it with “more than,” which means add.

 Write the Equation

Sara has 8 stickers. Jake has 4 times as many stickers as Sara. How many stickers does Jake have?

1. Identify the comparison: Jake has 4 times as many as Sara.
2. Write the equation: Jake’s stickers = 4×8 .
3. Solve: $4 \times 8 = 32$.

 **Answer:** Jake has 32 stickers.



“Times as many” is the secret code for multiplication — whenever you hear it, grab your $\times$ sign!



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 Practice Time!

1. 18 is 3 times as many as _____.
2. 7 times as many as 5 is _____.
3. Write a multiplication equation: "32 is 8 times as many as 4." _____
4. Mia has 6 books. Noah has 5 times as many books. How many books does Noah have? _____
5. A cat weighs 9 pounds. A dog weighs 4 times as much. How much does the dog weigh? _____
6. Write a comparison sentence for $6 \times 7 = 42$. _____

 Daily Challenge!

7. Ana is 8 years old. Her grandma is 9 times as old. How old is her grandma? In how many years will grandma be 10 times Ana's current age?

 **Key Takeaway:** "Times as many" means multiply: $A = n \times B$.

 **Day Complete! Great Job!** 

☐ I understand today's lesson ☐ I finished the practice



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WEEK

2

Whole Number Arithmetic



This Week's Days



Add and Subtract Whole Numbers





DAY

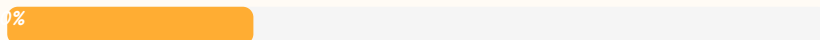
9

Add and Subtract Whole Numbers

Today You Will Learn

- ✓ Add multi-digit numbers with regrouping
- ✓ Subtract multi-digit numbers with borrowing

 Your Progress: Day 9 of 30



★ Let's make today count! ★



 Add Whole Numbers **Key Concept**

Line Up, Add, Regroup To add big numbers, **line up the digits by place value** and add from right to left. When a column totals 10 or more, write the ones digit and **carry** the extra to the next column.

Example: $2,587 + 1,946$

- *Ones:* $7 + 6 = 13$. Write 3, carry 1.
- *Tens:* $8 + 4 + 1 = 13$. Write 3, carry 1.
- *Hundreds:* $5 + 9 + 1 = 15$. Write 5, carry 1.
- *Thousands:* $2 + 1 + 1 = 4$.

Answer: **4,533**

 Add: $3,748 + 2,695$

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

 Subtract Whole Numbers

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 Key Concept

Line Up, Subtract, Borrow Subtraction also goes right to left. When the top digit is **smaller** than the bottom digit, **borrow** 1 from the next column (that adds 10 to your column).

Across zeros: If the next column is 0, keep moving left until you find a digit to borrow from, then work back.

Check: Answer + bottom number = top number.

 Subtract: $5,003 - 2,768$

1. Ones: $3 - 8$? Borrow! Tens is 0, hundreds is 0 — borrow from thousands.
2. 5 thousands $\rightarrow$ 4 thousands; 0 hundreds $\rightarrow$ 10 hundreds $\rightarrow$ 9 hundreds; 0 tens $\rightarrow$ 10 tens $\rightarrow$ 9 tens; 3 ones $\rightarrow$ 13 ones.
3. Ones: $13 - 8 = 5$, Tens: $9 - 6 = 3$, Hundreds: $9 - 7 = 2$, Thousands: $4 - 2 = 2$.

 **Answer:** $5,003 - 2,768 = 2,235$

Check: $2,235 + 2,768 = 5,003$ ✓



“ Addition and subtraction are opposites — you can always check one with the other! ”

 Practice Time!

Add Whole Numbers



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1. $1,463 + 2,578 =$ _____

3. $6,508 + 1,794 =$ _____

2. $3,295 + 4,867 =$ _____

4. $2,749 + 5,386 =$ _____

Subtract Whole Numbers

5. $7,432 - 3,685 =$ _____

7. $9,300 - 4,527 =$ _____

6. $4,001 - 1,256 =$ _____

8. $6,215 - 2,879 =$ _____

**Daily Challenge!**

9. A town had 8,204 people in January. By December, 3,567 people moved away and 2,189 new people moved in. What is the population now?



Key Takeaway: Line up digits by place value, work right to left, and regroup when needed.

✓ **Day Complete! Great Job!** ✓

☐ I understand today's lesson ☐ I finished the practice



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THANK YOU

Enjoyed This Preview?

Get the Full Book!

This preview shows just a small sample of what's inside.

The complete book includes:

- ✓ *All chapters and topics*
- ✓ *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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