

# Idaho ISAT 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 =  $4 \times 8$ .
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

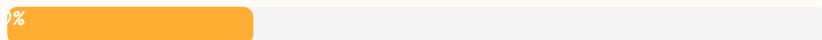
9

## *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**

 **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

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- ✓ *Reference sheets and progress trackers*

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