

# Maryland MCAP Grade 4 Math Puzzles and Brain Teasers

*Fun Math Games, Activities & Challenges*

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Published by View Math Education

ViewMath.com

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THINK • SOLVE • HAVE FUN

# Grade 4 Math Puzzles & Brain Teasers



*Math is more fun when it feels like a game!*

*This book is packed with puzzles, riddles, brain teasers, and math games that cover all of Grade 4 math. Crack codes, solve mysteries, break puzzles, and challenge your brain — all while learning math!*



*Solve Puzzles*



*Tease Your Brain*



*Have Fun!*

*“ Some of these puzzles are tricky! If you get stuck, take a break and come back. Your brain keeps working even when you’re resting! ”*

# How to Use This Book

Get to know the different puzzle types you'll find inside!

## Code Breakers

Solve the math, then use the answers to crack a secret code or message!

## Mystery Numbers

Follow the clues to figure out the mystery number. Think like a detective!

## Number Grids

Fill in the missing numbers in a grid. Rows, columns, and patterns are your clues.

## Logic Puzzles

Use reasoning and math to solve tricky logic problems. No guessing allowed!

## Math Mazes

Navigate through a maze by solving problems correctly at each turn.

## Riddles & Tricks

Math riddles that make you think differently. Can you figure it out?

## Difficulty Levels

-    **Warm-Up** — Get started with something fun!
-    **Brain Workout** — A solid challenge for your brain.
-    **Genius Level** — Only the bravest puzzlers dare try!

 **Answers** are in the **Answer Key** at the back. Try your best before peeking!

# Math Symbols & Words

Quick reference to help you solve puzzles!

## Symbols You'll See

<i>Symbol</i>	<i>Meaning</i>	<i>Symbol</i>	<i>Meaning</i>
+	Add	=	Equals
−	Subtract	≠	Not equal to
×	Multiply	<	Less than
÷	Divide	>	Greater than
≤	Less than or equal	≥	Greater than or equal
∠	Angle		Parallel
⊥	Perpendicular	≈	About equal to

## Key Math Words

- **Factor** — a number you multiply
- **Product** — multiply answer
- **Quotient** — divide answer
- **Remainder** — leftover after dividing
- **Sum** — add answer
- **Difference** — subtract answer
- **Numerator** — top of a fraction
- **Denominator** — bottom of a fraction
- **Equivalent** — equal in value
- **Decimal** — number with a decimal point
- **Prime** — only divisible by 1 and itself
- **Composite** — has more than 2 factors
- **Perimeter** — distance around a shape
- **Area** — space inside a shape
- **Symmetry** — same on both sides of a line
- **Degree** — unit for angles (°)



**The Alligator Trick:** The alligator's mouth always opens toward the bigger number. So  $5 > 3$  means the mouth opens toward 5 (the bigger one).

PREVIEW



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PREVIEW



PREVIEW

CHAPTER

1

# *Multiply, Divide, and Patterns*

## ★ *What's Inside* ★

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 **1.1 Multiplication as a Comparison**  **1.1 Multiplication  
Comparison Puzzles**  **Skills You'll Practice**

- Interpret "times as many" as multiplication
- Write multiplication equations from comparison sentences
- Find missing numbers in comparison statements

 **Mystery Number!** 

Who Am I?



- 1** I am a number less than 50.
- 2** I am 6 times as many as 7.
- 3** If you subtract 2 from me, you get a number that ends in 0.

What number am I? \_\_\_\_\_

Write the comparison equation: \_\_\_\_\_



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## Equation Scramble!

Comparison Scramble!



The tiles below make a comparison sentence about the two groups of dots. Unscramble them into the correct order!

Group A: • • • (3 dots)

Group B: • • • • • • • • • • • • • • (12 dots)

is

12

as many as

4 times

3

Write the sentence in order: \_\_\_\_\_

Write the equation: \_\_\_\_\_

## Crack the Code!

Crack the Comparison Code!



Solve each "times as many" problem. Match the answer to its letter and decode the secret word!

**G** 3 times as many as 8 = \_\_\_\_\_ = \_\_\_\_\_

**R** 5 times as many as 4 = \_\_\_\_\_ = \_\_\_\_\_

**E** 2 times as many as 9 = \_\_\_\_\_ = \_\_\_\_\_

**A** 7 times as many as 3 = \_\_\_\_\_ = \_\_\_\_\_

**T** 4 times as many as 6 = \_\_\_\_\_ = \_\_\_\_\_

Write the letters in order from **smallest answer** to **largest answer**:



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 *Secret Message:*

\_\_\_\_\_



### *Brain Teaser!*

*The Comparison Chain!*



*Read each clue carefully. Each answer is used in the next clue!*

1. Mia has 3 stickers. Leo has 4 times as many stickers as Mia. How many stickers does Leo have?

\_\_\_\_\_

2. Zara has 3 times as many stickers as Leo. How many stickers does Zara have? \_\_\_\_\_

3. How many times as many stickers does Zara have compared to Mia? \_\_\_\_\_

 *Hint: Multiply step by step — then compare Zara back to Mia!*

 *Puzzle Master!* 

You solved them all!



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CHAPTER

2

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

★ *What's Inside* ★

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## ★ 2.1 Add Whole Numbers ★

### 2.1 Addition Puzzles

#### 🎯 Skills You'll Practice

- Add multi-digit whole numbers fluently
- Regroup (carry) when a column sums to 10 or more
- Use addition relationships to find missing numbers
- Solve multi-step addition problems with reasoning

#### 🔍 Who Am I? ?



- 1 I am a three-digit number.
- 2 When you add 267 to me, you get 600.
- 3 All three of my digits are the same!
- 4 I am greater than 300.

What number am I? \_\_\_\_\_

Show the addition to check: \_\_\_\_\_ + 267 = 600



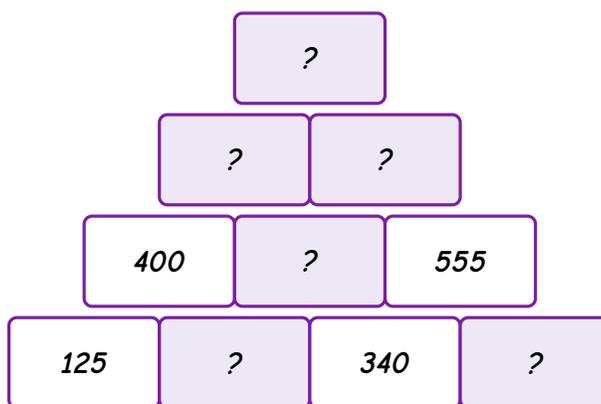
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## Addition Pyramid



In this pyramid, each brick equals the **sum** of the two bricks directly below it. Fill in all the missing numbers!



 **Hint:** Start where you know both a brick and one neighbor below it. If  $125 + ? = 400$ , what is the missing number?



## Crack the Code!

Crack the Addition Code!



Solve each addition problem. Then use the key to match each answer to a letter. Write the letters from **smallest answer to largest answer** to spell a secret word!

**S**  $1,250 + 1,250 = \underline{\hspace{2cm}}$

**T**  $1,678 + 1,322 = \underline{\hspace{2cm}}$

**A**  $2,555 + 1,445 = \underline{\hspace{2cm}}$



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**R**  $3,175 + 1,825 = \underline{\hspace{2cm}}$

**Letter Key:**

<b>Answer</b>	2,500	3,000	4,000	5,000
<b>Letter</b>	S	T	A	R

 **Secret Message:**

\_\_\_\_\_



### **Brain Teaser!**

*The Missing Digits!*



Each star (★) stands for a **missing digit** (0–9). Figure out what digit goes in each star to make the addition correct!

$$\begin{array}{r}
 \star 6 \star 4 \\
 + 2 \star 7 \star \\
 \hline
 5240
 \end{array}$$

1. The first ★ (thousands digit of the top number): \_\_\_\_\_
2. The second ★ (tens digit of the top number): \_\_\_\_\_
3. The third ★ (hundreds digit of the bottom number): \_\_\_\_\_
4. The fourth ★ (ones digit of the bottom number): \_\_\_\_\_



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 *Puzzle Master!* 

You solved them all!

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THANK YOU

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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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