

Indiana ILEARN Grade 5 Math Puzzles and Brain Teasers

Fun Math Games, Activities & Challenges

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THINK! SOLVE! WIN!

Grade 4 Math Puzzles & Brain Teasers!

Welcome, Puzzle Champion!

This book is packed with **brain teasers, puzzles, and math games** for every Grade 4 topic!

Each chapter has fun puzzles that make you **think differently** about math. Try them all and see how many you can solve!

The more you puzzle, the sharper your brain gets!



What's Inside?


 **Mystery Numbers**

 **Number Pyramids**

 **Code Breakers**

 **Logic Puzzles**

 **Math Games**

 **Brain Challengers**

 **Number Patterns**

 **Magic Squares**

Difficulty Stars: ★ Warm-Up ★★ Chal-
lenge ★★★ Brain Buster!

CHAPTER

1

Place Value & Decimals

★ What's Inside ★

1.1 Place Value Relationships	2
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★ 1.1 Place Value Relationships ★

Place Value Puzzles

🎯 Skills You'll Practice

- Know the value of each digit based on its position
- Understand the $\times 10$ and $\div 10$ relationships between places
- Compare digit values across different positions

🔍 Mystery Number! ?

Who Am I?



- 1 I am a 4-digit number.
- 2 My thousands digit is 7.
- 3 My ones digit is half my thousands digit (round down).
- 4 My tens digit is 10 times my ones digit divided by 10 — so it equals my ones digit!
- 5 My hundreds digit is my tens digit $+5$.

What number am I? _____

What is the value of my hundreds digit? _____



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 **Crack the Code!**

Place Value Secret!

Find the **value** of the underlined digit. Match each value to a letter to crack the code!

H $\underline{6}$,482 (value of the 6) = _____

E 3,715 (value of the 1) = _____

R 0.452 (value of the 4) = _____

O 5,103 (value of the 3) = _____

Order the values from **smallest to largest** and write the matching letters:
 **Secret Message:**

 
 **Equation Scramble!**

×10 Digit Scramble!

Use the digit cards below. Each card may be used **only once** per number.

- Build a 4-digit number where the 8 is worth 800.

My number: _____

- Build a 4-digit number where the 4 is worth 4,000.


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My number: _____

3. In your answer to #1, how many times greater is the value of the 8 than the value of the 2, if 2 is in the ones place? _____

 *Hint: Think about which **place** gives the digit the right value!*

Brain Teaser!

The $\times 10$ Detective




Zara writes the number **6,666.66**.

- The 6 in the **thousands** place is how many times the value of the 6 in the **tens** place?

- The 6 in the **tenths** place is what **fraction** of the 6 in the **hundreds** place?

- Marcus says, "The 6 in the hundredths place is worth 10 times less than the 6 in the ones place." Is he right? Explain.

 *Hint: Count how many places apart each pair of digits is. Each place = $\times 10$.*

 **Puzzle Master!** 

You solved them all!



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CHAPTER

2

Operations with Decimals

★ What's Inside ★

2.1 Add Decimals	6
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★ 2.1 Add Decimals ★

Decimal Addition Puzzles

Skills You'll Practice

- Add decimals to the hundredths place
- Line up decimal points and annex zeros
- Regroup (carry) across the decimal point

Mystery Number!


Decimal Sum Detective



- 1 I am the sum of two decimal numbers.
- 2 One number is 3.45 and the other is 2.7.
- 3 My ones digit is 6.
- 4 My tenths digit is 1.

What number am I? _____

Show the addition: $3.45 + 2.7 =$ _____

 **Hint:** Remember to annex a zero: $2.7 = 2.70$.

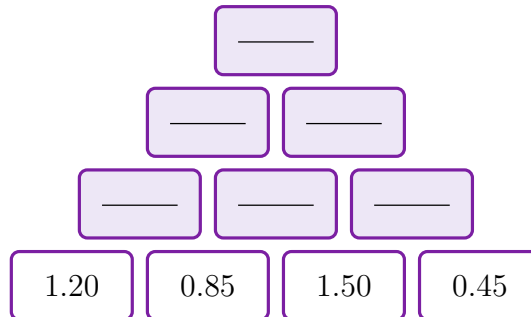



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 **Decimal Pyramid**


Each brick equals the **sum** of the two bricks below it. Fill in all the missing bricks!



 **Hint:** Start at the bottom! Add each pair of neighbors to get the brick above.

 **Crack the Code!**

Decimal Addition Code!



Solve each addition problem. Match your answers to the letters, then arrange the letters from **smallest** answer to **largest**.

P $0.75 + 0.80 =$ _____

L $2.50 + 1.25 =$ _____

U $4.30 + 3.62 =$ _____

S $6.48 + 2.97 =$ _____



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Order from smallest to largest:

 *Secret Message:*







Brain Teaser!

Decimal Sum Challenge



Use only the decimal cards below. Pick **three** cards that add up to exactly 5.00.

1.25

0.50

2.75

1.00

3.25

_____ + _____ + _____ = 5.00

Can you find a **second** combination that also equals 5.00?

_____ + _____ + _____ = 5.00

 *Hint:* Try pairing the largest card with two smaller ones first.

 *Puzzle Master!* 

You solved them all!



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- ✓ *Hundreds of practice problems*
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