

# Illinois IAR Grade 4 Math Worksheets

*Printable Practice Pages with Answer Key*

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# Grade 4 Math Worksheets

*Hands-on math activities for every topic!*

*Each worksheet in this book is a standalone activity you can do anytime. Cut them out, share them with friends, or work through them on your own. Every worksheet is a new chance to practice and have fun with math!*



*Tear & Go*



*Work It Out*



*Check Answers*

*“Each worksheet is its own little adventure. You can do them in any order that you like!”*



# How to Use This Book

Each worksheet is a standalone activity. Here are the types you'll find!

## Quick Practice

Straightforward problems to sharpen your skills.  
Perfect for daily warm-ups!

## Word Problems

Real-world scenarios that put your math to work. Read carefully!

## Fill in the Blank

Missing numbers, missing operations — figure out what goes in the blank!

## Sort & Match

Matching, sorting, and classifying activities to build number sense.

## Draw & Measure

Hands-on measuring, drawing shapes, and working with rulers and protractors.

## Challenge Worksheets

Tougher problems for students who want an extra challenge. Go for it!

### Tips:



- Each worksheet works on its own — do them in any order.
- Great for homework, extra practice, or classroom use.
- All answers are in the **Answer Key** at the back.
- Use scratch paper for longer problems!

# Math Symbols & Words

*A handy reference for any worksheet.*

## Math Symbols

| Symbol | Meaning            | Symbol | Meaning               |
|--------|--------------------|--------|-----------------------|
| +      | 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** — the multiply answer
- **Quotient** — the divide answer
- **Remainder** — leftover after dividing
- **Sum** — the add answer
- **Difference** — the subtract answer
- **Numerator** — top of a fraction
- **Denominator** — bottom of a fraction
- **Mixed number** — whole number + fraction
- **Decimal** — number with a decimal point
- **Angle** — formed by two rays
- **Degree** (°) — unit for angles
- **Perimeter** — distance around a shape
- **Area** — space inside a shape
- **Parallel** — lines that never meet
- **Perpendicular** — lines meeting at 90°

 **Key Formulas**

**Perimeter of a Rectangle**  $P = 2 \times (\text{length} + \text{width})$

**Area of a Rectangle**  $A = \text{length} \times \text{width}$

**Equivalent Fractions**  $\frac{a}{b} = \frac{a \times n}{b \times n}$



# *Contents*



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PREVIEW



CHAPTER

1

## *Multiply, Divide, and Patterns*

### ★ *What's Inside* ★

|                                                        |          |
|--------------------------------------------------------|----------|
| <b>1.1</b> <i>Multiplication as a Comparison</i> ..... | <b>2</b> |
|--------------------------------------------------------|----------|

## ★ 1.1 Multiplication as a Comparison ★

### 🎯 Skills You'll Practice

- Understand and use "times as many" to write multiplication equations
- Find missing numbers in multiplicative comparison statements
- Distinguish between additive and multiplicative comparisons



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## WORKSHEET 1

## Times As Many Speed Round

Name: \_\_\_\_\_

Date: \_\_\_\_\_

★ Score: \_\_\_\_\_

 Quick Math!

How Fast Can You Go?

 3 min

Fill in the missing number in each comparison.

| Comparison                    | Answer |
|-------------------------------|--------|
| 5 times as many as 4 =        | _____  |
| 3 times as many as 7 =        | _____  |
| 6 times as many as 5 =        | _____  |
| _____ times as many as 8 = 32 | _____  |
| 7 times as many as _____ = 42 | _____  |
| 9 times as many as 3 =        | _____  |

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## WORKSHEET 2

## Comparison Match-Up

Name: \_\_\_\_\_

Date: \_\_\_\_\_

★ Score: \_\_\_\_\_

## Match the Pairs!

Draw a Line to Match!

Draw a line from each **comparison sentence** on the left to the correct **equation** on the right.

24 is 6 times as many as 4

\_\_\_\_\_

$8 \times 3 = 24$

24 is 8 times as many as 3

\_\_\_\_\_

$4 \times 9 = 36$

36 is 4 times as many as 9

\_\_\_\_\_

$6 \times 4 = 24$

35 is 7 times as many as 5

\_\_\_\_\_

$7 \times 5 = 35$

18 is 3 times as many as 6

\_\_\_\_\_

$3 \times 6 = 18$

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## WORKSHEET 3

## Times As Many Mistake Hunt

Name: \_\_\_\_\_

Date: \_\_\_\_\_

★ Score: \_\_\_\_\_

## 🔍 Error Detective! ★

*Can You Find the Mistakes?*

Leo wrote these answers on his homework. **Some are wrong!** Find each mistake and write the correct answer.

Leo says: "5 times as many as 6 is 11."

$$5 \text{ times as many as } 6 = 5 + 6 = 11$$

Correct or wrong? \_\_\_\_\_ If wrong, fix it: \_\_\_\_\_

Leo says: "28 is 4 times as many as 7."

$$4 \times 7 = 28 \checkmark$$

Correct or wrong? \_\_\_\_\_ If wrong, fix it: \_\_\_\_\_

Leo says: "8 times as many as 4 is 24."

$$8 \times 4 = 24$$

Correct or wrong? \_\_\_\_\_ If wrong, fix it: \_\_\_\_\_



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## WORKSHEET 4

## At the Pet Store

Name: \_\_\_\_\_

Date: \_\_\_\_\_

★ Score: \_\_\_\_\_

 Real-World Math!

Pet Store Animal Count!

The pet store has these animals:

|                                                                                            |   |
|--------------------------------------------------------------------------------------------|---|
|  Goldfish | 6 |
|  Hamsters | 3 |
|  Parrots  | 4 |
|  Kittens  | 8 |

The store has how many **times as many** kittens as parrots? \_\_\_\_\_Zara says the store has 3 times as many goldfish as hamsters. Write an equation to check.  
\_\_\_\_\_

If the store gets 5 times as many fish as the parrots it already has, how many total fish will the store have? \_\_\_\_\_

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## WORKSHEET 5

## Draw Times As Many

Name: \_\_\_\_\_

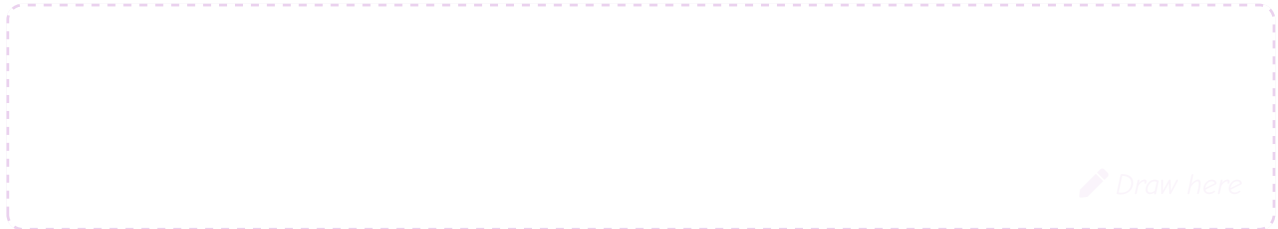
Date: \_\_\_\_\_

★ Score: \_\_\_\_\_

## Draw &amp; Solve!

*Draw It Out!**Marcus has 3 toy cars. Mia has 4 times as many toy cars as Marcus.***Draw** Marcus's cars in the first box and Mia's cars in the second box. Then write the equation.**Marcus's cars:**

Draw here

**Mia's cars:**

Draw here

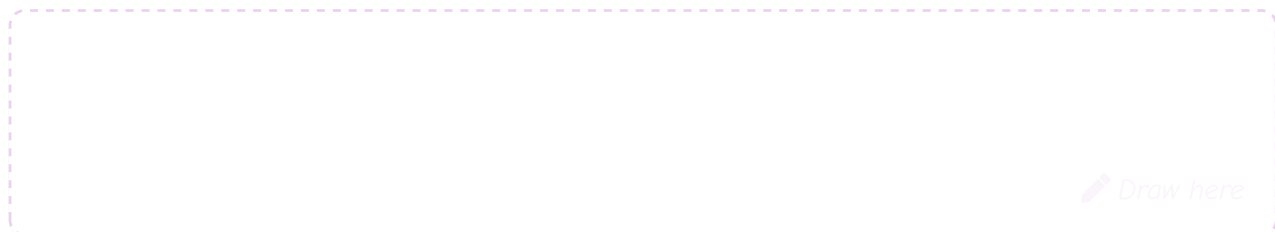
Equation: \_\_\_\_\_

*Leo has 5 stickers. Zara has 3 times as many stickers as Leo.***Draw** groups of stickers for both Leo and Zara. Then write the equation.**Leo's stickers:**Find more at  
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A large rectangular area with a dashed purple border, intended for drawing Zara's stickers.

**Zara's stickers:**



A large rectangular area with a dashed purple border, intended for drawing Zara's stickers.

Equation: \_\_\_\_\_

★ **Worksheet Superstar!** 🏆

You finished all the activities!



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CHAPTER

2

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

## ★ *What's Inside* ★

|                                           |           |
|-------------------------------------------|-----------|
| <b>2.1</b> <i>Add Whole Numbers</i> ..... | <b>10</b> |
|-------------------------------------------|-----------|

## ★ 2.1 Add Whole Numbers ★

### 🎯 Skills You'll Practice

- Add multi-digit whole numbers using the standard algorithm
- Regroup (carry) when a column sum is 10 or more
- Check addition by estimating the sum



## WORKSHEET 1

## Addition Speed Round

Name: \_\_\_\_\_

Date: \_\_\_\_\_

★ Score: \_\_\_\_\_

## Quick Math!

How Fast Can You Add?

⌚ 4 min

Solve each addition problem.

| Problem         | Answer | Problem           | Answer |
|-----------------|--------|-------------------|--------|
| $432 + 251 =$   | _____  | $5,817 + 1,346 =$ | _____  |
| $678 + 145 =$   | _____  | $3,492 + 2,365 =$ | _____  |
| $2,309 + 673 =$ | _____  | $4,758 + 3,689 =$ | _____  |

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## WORKSHEET 2

## Addition Mistake Hunt

Name: \_\_\_\_\_

Date: \_\_\_\_\_

★ Score: \_\_\_\_\_

## 🔍 Error Detective! ★

*Can You Find the Mistakes?**Mia solved these addition problems. **Some are wrong!** Find each mistake and write the correct answer.**Mia says: "467 + 358 = 715"*

$$\begin{array}{r} 1 \\ 467 \\ +358 \\ \hline 715 \end{array}$$

*Correct or wrong? \_\_\_\_\_ If wrong, fix it: \_\_\_\_\_**Mia says: "2,543 + 1,278 = 3,821"*

$$\begin{array}{r} 1 \\ 2,543 \\ +1,278 \\ \hline 3,821 \end{array}$$

*Correct or wrong? \_\_\_\_\_ If wrong, fix it: \_\_\_\_\_**Mia says: "3,906 + 847 = 4,853"*Find more at  
[ViewMath.com/Grade4](https://www.viewmath.com/Grade4)

$3,906$  $+ 847$  $4,853$ 

Correct or wrong? \_\_\_\_\_ If wrong, fix it: \_\_\_\_\_



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## WORKSHEET 3

## Addition Machines

Name: \_\_\_\_\_

Date: \_\_\_\_\_

★ Score: \_\_\_\_\_

## ⚙️ What's the Rule? ⚙️

*What's the Rule?**Each machine adds a fixed number. Find the missing outputs and the rule.***Machine A:**

|            |       |       |       |       |
|------------|-------|-------|-------|-------|
| <b>IN</b>  | 1,200 | 2,400 | 3,150 | 4,825 |
| <b>OUT</b> | 1,700 | 2,900 | _____ | _____ |

Rule: \_\_\_\_\_

**Machine B:**

|            |       |       |       |       |
|------------|-------|-------|-------|-------|
| <b>IN</b>  | 3,467 | 1,809 | 5,230 | 2,641 |
| <b>OUT</b> | 5,467 | 3,809 | _____ | _____ |

Rule: \_\_\_\_\_

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## WORKSHEET 4

## The School Book Fair

Name: \_\_\_\_\_

Date: \_\_\_\_\_

★ Score: \_\_\_\_\_

## Real-World Math!

*How Many Books Were Sold?**The school library held a book fair for two days.*

|                                   |       |
|-----------------------------------|-------|
| ▶ Books sold on Monday .....      | 1,348 |
| ▶ Books sold on Tuesday .....     | 2,576 |
| ▶ Books donated by a parent ..... | 463   |

*How many books were sold over both days combined?* \_\_\_\_\_*How many books does the library have in total if you count sold books plus donated books?*

\_\_\_\_\_

*Another school sold 3,019 books at their fair. Which school sold more, and by how much?*

\_\_\_\_\_

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 WORKSHEET 5**Addition Journal**  **Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_ **Score:** \_\_\_\_\_ **Explain Your Thinking!***Tell Me What You Know!*

Leo added  $368 + 475$  and got 733. Mia got 843. Who is right? Show how you know, using the words **regroup** and **carry**.

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When do you need to regroup while adding? Give an example of a column where you would **not** need to regroup and one where you **would**.

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 **Worksheet Superstar!** 

You finished all the activities!

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THANK YOU

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