

# New York NYS Math Test Grade 4 Math Workbook

*Practice Problems & Exercises with Answer Key*

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Published by View Math Education

ViewMath.com

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PRACTICE MAKES PROGRESS

# Your Grade 4 Math Workbook



*The more you practice, the stronger you get!*

*This workbook is packed with practice problems for every Grade 4 math topic. Each section gives you plenty of room to work through problems, build confidence, and master new skills.*



*Build Strength*



*Check Answers*



*Feel Proud*

“ Grab your pencil and let's get started! Every problem you solve makes you a better mathematician. ”



# How to Use This Workbook

*This workbook is designed for practice. Here's what you'll find inside.*

## Quick Review

*Each section starts with a short review of the key idea. Read it to refresh your memory before you practice.*

## Worked Example

*A step-by-step example shows you exactly how to solve that type of problem. Study it carefully!*

## Practice Problems

*Lots of problems to help you build skills. Start from the top and work your way down. If a problem feels hard, look back at the example.*

## Challenge Problems

*Bonus problems at the end of some sections. These are harder — give them your best shot!*

## Watch Out!

*Common mistakes to avoid. Read these carefully so you don't fall into traps!*

### **Tips for success:**



- Try every problem before checking the **Answer Key** at the back.
- Show your work! Writing out steps helps you learn.
- If you get stuck, re-read the Quick Review and Example.
- It's okay to make mistakes — that's how you learn!

# Math Reference

Quick reference for symbols, words, and formulas you'll use in this workbook.

## Math Symbols

<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** — the answer when you multiply
- **Quotient** — the answer when you divide
- **Remainder** — what's left after dividing
- **Sum** — the answer when you add
- **Difference** — the answer when you subtract
- **Numerator** — top number of a fraction
- **Denominator** — bottom number of a fraction
- **Mixed number** — a whole number + fraction
- **Decimal** — a number with a decimal point
- **Angle** — a shape formed by two rays
- **Degree** (°) — unit for measuring angles
- **Perimeter** — distance around a shape
- **Area** — space inside a shape
- **Parallel** — lines that never meet
- **Perpendicular** — lines that meet 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*  $\frac{a}{b} = \frac{a \times n}{b \times n}$

PREVIEW



# *Contents*



<b>1</b>	<b><i>Multiply, Divide, and Patterns</i></b> .....	<b>1</b>
1.1	<i>Multiplication as a Comparison</i> .....	2
<b>2</b>	<b><i>Adding, Subtracting, Multiplying, and Dividing Whole Numbers</i></b> .....	<b>6</b>
2.1	<i>Add Whole Numbers</i> .....	7

PREVIEW



PREVIEW

CHAPTER

1

# *Multiply, Divide, and Patterns*

## ★ *What's Inside* ★

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



## ★ 1.1 Multiplication as a Comparison ★

### Quick Review: Multiplication as a Comparison

**Multiplicative comparison** means one amount is a certain number of **times as many** as another.

- Key phrase: **“times as many”** always means **multiply**.
- The equation form: **bigger** = **multiplier** × **smaller**

**Example:** Ava has 4 apples. Ben has 3 times as many apples as Ava.

$$\text{Ben's apples} = 3 \times 4 = 12$$

**Reading an equation:**  $5 \times 6 = 30$  means “30 is 5 times as many as 6.”

### Warm-Up: True or Not?

Circle **YES** if the equation matches the sentence, or **NO** if it does not.

1. “18 is 3 times as many as 6.” Equation:  $3 \times 6 = 18$  YES / NO
2. “20 is 5 times as many as 4.” Equation:  $5 \times 4 = 20$  YES / NO
3. “12 is 4 times as many as 4.” Equation:  $4 \times 4 = 12$  YES / NO
4. “35 is 7 times as many as 5.” Equation:  $7 \times 5 = 35$  YES / NO
5. “24 is 3 times as many as 6.” Equation:  $3 \times 8 = 24$  YES / NO
6. “40 is 8 times as many as 5.” Equation:  $8 \times 5 = 40$  YES / NO



## Write the Multiplication Equation

Read each comparison sentence. Write the multiplication equation it describes.

7. "15 is 3 times as many as 5."

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

8. "28 is 4 times as many as 7."

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

9. "42 is 6 times as many as 7."

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

10. "32 is 8 times as many as 4."

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

11. "45 is 9 times as many as 5."

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

12. "36 is 4 times as many as 9."

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

## Complete the Comparison Statement

Fill in the blank to complete each sentence.

13.  $5 \times 3 = 15$ , so 15 is \_\_\_\_\_ times as many as 3.

14.  $7 \times 4 = 28$ , so 28 is \_\_\_\_\_ times as many as 4.

15.  $6 \times 8 = 48$ , so 48 is \_\_\_\_\_ times as many as 8.

16.  $9 \times 3 = 27$ , so 27 is \_\_\_\_\_ times as many as 3.

17.  $4 \times 6 = 24$ , so 24 is 4 times as many as \_\_\_\_\_.

18.  $8 \times 7 = 56$ , so 56 is 8 times as many as \_\_\_\_\_.

## True or False?

19. 54 is 6 times as many as 9.

True  False

20. 30 is 6 times as many as 6.

True  False

21. 63 is 7 times as many as 9.

True  False



22. 48 is 8 times as many as 7.

True  False

23. 36 is 4 times as many as 9.

True  False

### Word Problems

24. A dog has 4 legs. An octopus has 2 times as many legs as a dog. How many legs does an octopus have?

Answer: \_\_\_\_\_ legs

25. Lily collected 6 shells. Owen collected 5 times as many shells as Lily. How many shells did Owen collect?

Answer: \_\_\_\_\_ shells

26. A blue ribbon is 3 centimeters long. A red ribbon is 7 times as long as the blue ribbon. How long is the red ribbon?

Answer: \_\_\_\_\_ centimeters

27. Marcus scored 9 points in a game. Kira scored 4 times as many points as Marcus. How many points did Kira score?

Answer: \_\_\_\_\_ points

### Challenge!

28. I am a number that is 6 times as many as 8. What number am I? \_\_\_\_\_

29. Nina has some stickers. Jose has 56 stickers, which is 7 times as many as Nina. How many stickers does Nina have? \_\_\_\_\_



★ *Awesome work! You can now read, write, and solve multiplicative comparisons like a math superstar!* ★

PREVIEW



Find more at  
[ViewMath.com/Grade4](https://www.viewmath.com/Grade4)



CHAPTER

2

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

★ *What's Inside* ★

<i>2.1 Add Whole Numbers</i> .....	7
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## ★ 2.1 Add Whole Numbers ★

### Quick Review: Add Whole Numbers

To add multi-digit numbers, use the **standard algorithm**: line up digits by place value and add column by column from **right to left**.

- If a column adds to 10 **or more**, write the ones digit and **carry** the tens digit to the next column.
- Always add any **carried number** before moving on.

**Example:**  $2,475 + 3,689$

- **Ones:**  $5 + 9 = 14$ , write 4, carry 1
- **Tens:**  $7 + 8 + 1 = 16$ , write 6, carry 1
- **Hundreds:**  $4 + 6 + 1 = 11$ , write 1, carry 1
- **Thousands:**  $2 + 3 + 1 = 6$

**Answer:** **6,164**

### Warm-Up: Add Without Regrouping

1.  $234 + 451 =$  \_\_\_\_\_

4.  $4,310 + 3,208 =$  \_\_\_\_\_

2.  $612 + 375 =$  \_\_\_\_\_

5.  $5,142 + 1,436 =$  \_\_\_\_\_

3.  $1,203 + 2,564 =$  \_\_\_\_\_

6.  $30,412 + 14,256 =$  \_\_\_\_\_



 *Add with Regrouping* 

7.  $478 + 356 = \underline{\hspace{2cm}}$

10.  $3,856 + 4,978 = \underline{\hspace{2cm}}$

8.  $695 + 287 = \underline{\hspace{2cm}}$

11.  $5,697 + 3,458 = \underline{\hspace{2cm}}$

9.  $1,749 + 2,684 = \underline{\hspace{2cm}}$

12.  $6,389 + 2,745 = \underline{\hspace{2cm}}$

  *Find the Missing Number* 

13.  $465 + \underline{\hspace{2cm}} = 800$

14.  $\underline{\hspace{2cm}} + 587 = 1,024$

15.  $2,750 + \underline{\hspace{2cm}} = 5,000$

16.  $\underline{\hspace{2cm}} + 3,648 = 7,205$

17.  $4,999 + \underline{\hspace{2cm}} = 10,000$

 *True or False?* 

18.  $346 + 254 = 600$

True  False 

19.  $1,999 + 1 = 2,100$

True  False 

20.  $2,486 + 3,514 = 6,000$

True  False 

21.  $750 + 250 = 1,100$

True  False 

22.  $4,567 + 5,433 = 10,000$

True  False 

  **Word Problems** 

23. A school collected 1,487 cans in October and 2,365 cans in November. How many cans were collected in all?

**Answer:** \_\_\_\_\_ cans

24. A library has 3,758 fiction books and 2,946 nonfiction books. How many books does the library have in total?

**Answer:** \_\_\_\_\_ books

25. On a road trip, a family drove 1,245 miles the first week and 1,879 miles the second week. How many miles did they drive altogether?

**Answer:** \_\_\_\_\_ miles

26. A farmer harvested 4,672 apples from one orchard and 3,958 apples from another. What is the total harvest?

**Answer:** \_\_\_\_\_ apples

 **Challenge!** 

27. A school has 2,386 students. Next year 475 new students will join, and the year after 298 more. How many students will the school have then? \_\_\_\_\_

28. Find a pair of four-digit numbers that add up to exactly 10,000 and both numbers have the digit 5 in the hundreds place. \_\_\_\_\_ 

 **Awesome addition work! You can add big numbers with confidence!** 



Find more at  
[ViewMath.com/Grade4](https://www.viewmath.com/Grade4)



THANK YOU

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- ✓ *Reference sheets and progress trackers*

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