

Alaska AK STAR Grade 3 Math Workbook

Practice Problems & Exercises with Answer Key

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LET'S PRACTICE!

Grade 3 Math Workbook!



Hi there, math superstar! ★

This workbook is packed with **practice problems** to help you become a math champion! Each topic has a quick review, warm-up problems, lots of practice, and fun challenges.

- ✓ Practice makes you **stronger**!
- ✓ Take your time and **show your work**!
- ✓ Check your answers at the **back of the book**!

Grab a pencil and let's get started! 🚀

“ The more you practice, the better you get!
I believe in you! ”



How to Use This Workbook

Follow these steps for every topic!

Step 1: Quick Review

Each topic starts with a **Quick Review** to remind you of the key ideas. Read it before you begin!

Step 2: Warm-Up

Easy problems to get your brain ready. These are like stretching before a race!

Step 3: Practice

The main workout! Lots of problems to build your skills. Take your time and show your work.

Step 4: Challenge

Ready for something harder? These tricky problems will push your brain to the next level!

Step 5: Check Your Answers

Turn to the **Answer Key** at the back of the book. Mark each problem right or wrong, and learn from mistakes!

Tips for Students

- Do one topic at a time
- Show all your work
- Don't peek at answers first!
- Circle problems you find hard
- Come back to hard ones later

Tips for Parents

- Let your child work independently
- Review mistakes together
- Praise effort, not just answers
- 15–20 minutes per session
- Use with the Study Guide!

✓ **Answers and explanations** for all practice problems are in the **Answer Key** at the back of the book!

PREVIEW



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X¹ Math Reference Sheet X¹

Use this page any time you need a quick reminder!

Symbol	Name	What It Means	
+	Plus (Add)	Put numbers together.	$3 + 5 = 8$
-	Minus (Subtract)	Take away from a number.	$9 - 4 = 5$
×	Times (Multiply)	Add equal groups.	$4 \times 3 = 12$
÷	Divide	Split into equal groups.	$12 \div 3 = 4$
=	Equals	Both sides are the same.	$2 + 3 = 5$
>	Greater Than	The left number is bigger.	$7 > 3$
<	Less Than	The left number is smaller.	$2 < 9$
$\frac{1}{2}$	Fraction Bar	Part of a whole. $\frac{1}{2}$ means 1 out of 2 equal parts	

Key Math Words

- **Sum** — the answer when you add
- **Difference** — the answer when you subtract
- **Product** — the answer when you multiply
- **Quotient** — the answer when you divide
- **Factor** — a number you multiply
- **Digit** — a single number symbol (0–9)
- **Place Value** — what a digit is worth
- **Regroup** — trade 10 ones for 1 ten
- **Estimate** — a smart guess
- **Expanded Form** — showing each digit's value
- **Fraction** — a part of a whole
- **Equivalent** — equal in value
- **Perimeter** — distance around a shape
- **Area** — space inside a shape

 Place Value Chart

<i>Thousands</i>	<i>Hundreds</i>	<i>Tens</i>	<i>Ones</i>
1,000	100	10	1



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CHAPTER

1

Number Sense & Place Value

★ *What's Inside* ★

1.1 <i>Place Value: Ones, Tens, Hundreds</i>	2
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★ 1.1 Place Value: Ones, Tens, Hundreds ★

Quick Review: Place Value

Place value tells us how much a digit is worth based on where it sits in a number.

- The **hundreds** place is on the left: it means groups of 100.
- The **tens** place is in the middle: it means groups of 10.
- The **ones** place is on the right: it means single units.

Example: In the number **527**: 5 hundreds = 500, 2 tens = 20, 7 ones = 7.

Expanded form: $527 = 500 + 20 + 7$

Warm-Up

Name the Place

What place is the underlined digit in? Write **hundreds**, **tens**, or **ones**.

1. 456 _____

4. 604 _____

2. 783 _____

5. 901 _____

3. 219 _____



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 What Is the Value? *Write the Value of the Underlined Digit*

6. $\underline{5}$ 73 _____

9. $\underline{8}$ 02 _____

7. 248 _____

10. 307 _____

8. 916 _____

11. 651 _____

Write in Expanded Form

12. $483 =$ _____

13. $615 =$ _____

14. $907 =$ _____

15. $350 =$ _____

 Write the Standard Form *Write the number in standard form (the normal way).*

16. $200 + 40 + 5 =$ _____

18. $500 + 0 + 2 =$ _____

17. $700 + 10 + 8 =$ _____

19. $100 + 90 + 9 =$ _____

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 True or False?

20. In 572, the digit 7 has a value of 70.

True ☐ False ☐

21. In 843, the digit 8 is in the tens place.

True ☐ False ☐

22. The expanded form of 405 is $400 + 0 + 5$.

True ☐ False ☐

23. $300 + 20 + 6 = 326$

True ☐ False ☐

 Word Problems

24. A library has 573 books. What is the value of the digit 5 in 573?

Answer: _____

25. Maya collected 268 stickers. Write this number in expanded form.

Answer: _____

26. Jake says the number with 4 hundreds, 0 tens, and 9 ones is 49. Is Jake correct? Explain.

Answer: _____

 Challenge!

27. I am a 3-digit number. My hundreds digit is double my ones digit. My tens digit is 5. My ones digit is 3. What number am I? _____

28. Using the digits 2, 7, and 4 (each used once), what is the **largest** 3-digit number you can make?



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★ *Great job practicing place value! You
are building strong number sense!* ★

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CHAPTER

2

Multiplication & Division

★ *What's Inside* ★

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★ 2.1 Understanding Multiplication ★

Quick Review: What Is Multiplication?

Multiplication is a fast way to add **equal groups**.

- 3×4 means “3 groups of 4.”
- The numbers you multiply are called **factors**.
- The answer is called the **product**.

Example: $5 \times 2 = 10$ means 5 groups of 2: $2 + 2 + 2 + 2 + 2 = 10$.

You can show multiplication with **equal groups**, **arrays**, **repeated addition**, or **skip counting**.

Warm-Up

Quick Multiply

1. $2 \times 3 =$ _____

3. $1 \times 7 =$ _____

5. $5 \times 4 =$ _____

2. $4 \times 2 =$ _____

4. $3 \times 5 =$ _____

6. $2 \times 6 =$ _____

Write the Multiplication Sentence

Look at the Groups



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Write a multiplication sentence and the product for each.

7. 3 groups of 6 $\underline{\quad} \times \underline{\quad} = \underline{\quad}$

8. 5 groups of 3 $\underline{\quad} \times \underline{\quad} = \underline{\quad}$

9. 4 groups of 4 $\underline{\quad} \times \underline{\quad} = \underline{\quad}$

10. 2 groups of 9 $\underline{\quad} \times \underline{\quad} = \underline{\quad}$

11. 6 groups of 2 $\underline{\quad} \times \underline{\quad} = \underline{\quad}$

Repeated Addition to Multiplication

Rewrite as Multiplication

Write each repeated addition as a multiplication sentence.

12. $5 + 5 + 5 + 5 = \underline{\quad} \rightarrow \underline{\quad} \times \underline{\quad} = \underline{\quad}$

13. $3 + 3 + 3 + 3 + 3 = \underline{\quad} \rightarrow \underline{\quad} \times \underline{\quad} = \underline{\quad}$

14. $8 + 8 + 8 = \underline{\quad} \rightarrow \underline{\quad} \times \underline{\quad} = \underline{\quad}$

15. $6 + 6 = \underline{\quad} \rightarrow \underline{\quad} \times \underline{\quad} = \underline{\quad}$

Arrays

Write the Multiplication Sentence for Each Array

16. 3 rows with 4 in each row: $\underline{\quad} \times \underline{\quad} = \underline{\quad}$

17. 5 rows with 2 in each row: $\underline{\quad} \times \underline{\quad} = \underline{\quad}$

18. 2 rows with 8 in each row: $\underline{\quad} \times \underline{\quad} = \underline{\quad}$



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19. 4 rows with 5 in each row: $\underline{\quad} \times \underline{\quad} = \underline{\quad}$

True or False?

20. 4×3 means 4 groups of 3.

True ☐ False ☐

21. $5 \times 2 = 2 \times 5$

True ☐ False ☐

22. $3 + 3 + 3 + 3$ is the same as 3×4 .

True ☐ False ☐

23. The product of 6×1 is 6.

True ☐ False ☐

Word Problems

24. A baker puts 6 cookies on each tray. He fills 3 trays. How many cookies are there in all?

Answer: $\underline{\hspace{2cm}}$ cookies

25. There are 4 fish tanks. Each tank has 5 fish. How many fish are there altogether?

Answer: $\underline{\hspace{2cm}}$ fish

26. Sam has 7 bags of marbles. Each bag has 2 marbles. How many marbles does Sam have?

Answer: $\underline{\hspace{2cm}}$ marbles

Challenge!

27. Draw two different arrays that each show a total of 12 objects. Write the multiplication sentence for each.



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Array 1: _____ $\times$ _____ = 12

Array 2: _____ $\times$ _____ = 12

28. A farmer plants flowers in 5 equal rows. He plants 40 flowers in all. How many flowers are in each row? _____

★ You understand what multiplication means — equal groups, arrays, and repeated addition! Keep it up! ★



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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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