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Kelley Wingate Series
Common Core Edition

Grade

5

Math Practice



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Kelley Wingate

Math Practice

Fifth Grade

Credits

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Introduction

Competency in basic math skills creates a foundation for the successful use of math principles in the real world. Practicing math skills—in the areas of operations, algebra, place value, fractions, measurement, and geometry—is the best way to improve at them.

This book was developed to help students practice and master basic mathematical concepts. The practice pages can be used first to assess proficiency and later as basic skill practice. The extra practice will help students advance to more challenging math work with confidence. Help students catch up, stay up, and move ahead.

Common Core State Standards (CCSS) Alignment

This book supports standards-based instruction and is aligned to the CCSS. The standards are listed at the top of each page for easy reference. To help you meet instructional, remediation, and individualization goals, consult the Common Core State Standards alignment chart on page 4.

Leveled Activities

Instructional levels in this book vary. Each area of the book offers multilevel math activities so that learning can progress naturally. There are three levels, signified by one, two, or three dots at the bottom of the page:

- Level I: These activities will offer the most support.
- Level II: Some supportive measures are built in.
- Level III: Students will understand the concepts and be able to work independently.

All children learn at their own rate. Use your own judgment for introducing concepts to children when developmentally appropriate.

Hands-On Learning

Review is an important part of learning. It helps to ensure that skills are not only covered but are internalized. The flash cards at the back of this book will offer endless opportunities for review. Use them for a basic math facts drill, or to play bingo or other fun games.

There is also a certificate template at the back of this book for use as students excel at daily assignments or when they finish a unit.

Common Core State Standards Alignment Chart

Common Core State Standards*		Practice Page(s)
Operations and Algebraic Thinking		
Write and interpret numerical expressions.	5.OA.1–5.OA.2	5–10
Analyze patterns and relationships.	5.OA.3	98–100
Number and Operations in Base Ten		
Understand the place value system.	5.NBT.1–5.NBT.4	11–19
Perform operations with multi-digit whole numbers and with decimals to hundredths.	5.NBT.5–5.NBT.7	20–40, 53–55
Number and Operations—Fractions		
Use equivalent fractions as a strategy to add and subtract fractions.	5.NF.1–5.NF.2	41–52, 71
Apply and extend previous understandings of multiplication and division to multiply and divide fractions	5.NF.3–5.NF.7	53–70, 72, 73
Measurement and Data		
Convert like measurement units within a given measurement system.	5.MD.1	74–76
Represent and interpret data.	5.MD.2	77–79
Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition.	5.MD.3–5.MD.5	80–94
Geometry		
Graph points on the coordinate plane to solve real-world and mathematical problems.	5.G.1–5.G.2	95–100
Classify two-dimensional figures into categories based on their properties.	5.G.3–5.G.4	101–103

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Evaluating Numerical Expressions

Use the following order to calculate and solve expressions:

1. Solve inside parentheses. $(36 \div 12) \times 2 + 3 \rightarrow (3) \times 2 + 3$
2. Multiply and divide from left to right. $3 \times 2 + 3 \rightarrow 6 + 3$
3. Add and subtract from left to right. $6 + 3 \rightarrow 9$

Solve each expression. Remember to follow the order of operations.

1. $(6 \times 2) + 8 = \underline{\hspace{2cm}}$

2. $3 + (8 \times 2) = \underline{\hspace{2cm}}$

3. $14 \div 2 + 3 = \underline{\hspace{2cm}}$

4. $21 \div 7 \times 2 = \underline{\hspace{2cm}}$

5. $(5 \times 2) + 3 = \underline{\hspace{2cm}}$

6. $(10 + 10) \div 2 = \underline{\hspace{2cm}}$

7. $6 \times (3 + 3) = \underline{\hspace{2cm}}$

8. $10 \times 10 \div 25 = \underline{\hspace{2cm}}$

9. $(17 - 7) \div 5 = \underline{\hspace{2cm}}$

10. $50 \div 5 + 3 = \underline{\hspace{2cm}}$

Evaluating Numerical Expressions

Solve each expression. Remember to follow the order of operations.

1. $8 - 2 + 9 = \underline{\hspace{2cm}}$

2. $18 \div 9 + 3 = \underline{\hspace{2cm}}$

3. $(15 \div 3) \times 5 = \underline{\hspace{2cm}}$

4. $(45 \div 9) \times 4 = \underline{\hspace{2cm}}$

5. $5 + (21 \div 4) = \underline{\hspace{2cm}}$

6. $15 - 2 + 8 = \underline{\hspace{2cm}}$

7. $40 \div 5 - 7 = \underline{\hspace{2cm}}$

8. $(5 \times 7) - 30 = \underline{\hspace{2cm}}$

9. $(4 \times 4) + 5 = \underline{\hspace{2cm}}$

10. $21 \div 7 + 3 = \underline{\hspace{2cm}}$

11. $(2^2 - 2) \times 3 + 8 = \underline{\hspace{2cm}}$

12. $(15 \times 2) \div 10 + 8 = \underline{\hspace{2cm}}$

13. $10 - (14 \div 2) + 3 = \underline{\hspace{2cm}}$

14. $2 \times 2 \div 2 \times 8 = \underline{\hspace{2cm}}$

Evaluating Numerical Expressions

Solve each expression.

1. $8 \times (8 - 2) + 6^2 = \underline{\hspace{2cm}}$

2. $(52 - 4^2) \div (8 - 4) = \underline{\hspace{2cm}}$

3. $(2 + 2)^2 + (14 \div 2) = \underline{\hspace{2cm}}$

4. $(12 \times 10 - 4^2) - 5 = \underline{\hspace{2cm}}$

5. $(14 - 2)^2 + (8 \div 4) = \underline{\hspace{2cm}}$

6. $(64 - 6^2) \div (9 - 2) = \underline{\hspace{2cm}}$

7. $6 \times (13 - 4) + 2^2 = \underline{\hspace{2cm}}$

8. $[4^2 + (15 \div 5 + 5^2)] + 4^2 = \underline{\hspace{2cm}}$

9. $[5^2 + (10 \div 2 + 2^2)] - 5^2 = \underline{\hspace{2cm}}$

10. $[(9 - 2)^2 + 3] + 5 + 3^2 = \underline{\hspace{2cm}}$

11. $[(10 - 5)^2 \times 7] + 5 + 5^2 = \underline{\hspace{2cm}}$

12. $6 + [9 + (9 - 3)^2] + 7 = \underline{\hspace{2cm}}$

13. $(16 \div 8)2 + [(15 - 2) \times 32] = \underline{\hspace{2cm}}$

14. $13 + [7 + (10 - 6)2] - 8 = \underline{\hspace{2cm}}$

Interpreting Numerical Expressions

Expressions can be written with numbers and symbols or in words.

4 more than the product of 6 and 7

$$4 + (6 \times 7)$$

add 10 and 12, then divide in half

$$(10 + 12) \div 2$$

Look for key words to help you decide which operations to use. Use parentheses to group the part of the expression that should happen first.

Write each expression with numbers.

1. 3 times the sum of 2 and 46 _____
2. 16 more than the product of 2 and 9 _____
3. subtract 4 from 29, then double _____
4. 6 less than the quotient of 90 divided by 9 _____

Write each expression in words.

5. $9 + (24 \div 6)$ _____
6. $(86 - 72) + 6$ _____
7. $(22 \times 3) \div 2$ _____
8. $4 \times (5 + 83)$ _____

Interpreting Numerical Expressions

Write each expression with numbers.

1. add 34 to itself, then divide in half _____
2. subtract 6 from 34, then triple _____
3. 5 times the sum of 23 and 7 _____
4. the quotient of 100 and double 25 _____
5. 8 more than the product of 12 and 4 _____
6. 16 less than the quotient of 200 divided by 10 _____

Write each expression in words.

7. $(33 + 6) \div 3$ _____
8. $2 \times (15 + 67)$ _____
9. $(3 \times 13) + 2$ _____
10. $(20 - 4) + 100$ _____
11. $(100 - 45) \times 2$ _____
12. $70 + (45 \div 9)$ _____

Interpreting Numerical Expressions

Write each expression with numbers.

1. half of the product of 42 and 3 _____
2. four times the sum of 53 and 11 _____
3. the product of 7 and the sum of 5 and 74 _____
4. 23 times 10, divided by 5 _____
5. 18 more than the product of 2 and 42 _____
6. 14 less than the product of 16 and 10 _____
7. the sum of 45 and the product of 3 and 12 _____

Write each expression in words.

8. $(13 \times 6) \div 2$ _____
9. $12 + (30 + 7)$ _____
10. $(40 \div 8) - 12$ _____
11. $(21 + 9) \div 3$ _____
12. $(10 + 2) - (45 \div 9)$ _____

13. $80 - (4 \times 4)$ _____

Powers of Ten

Numbers can be abbreviated using exponential notation.

An exponent tells how many times a factor is multiplied by itself.

$$10^3 = 10 \times 10 \times 10 = 1,000 \quad 10 \text{ is multiplied by itself 3 times.}$$

Look for patterns when a power of 10 is multiplied by another number between 1 and 9.

$$7,000,000 = 7 \times 10^6$$

Hint: To know what power of 10 to use, simply match the power of 10 to the number of zeros in the number.

$$4,000 = 4 \times 10^3$$

$$900,000 = 9 \times 10^5$$

Write each number with an exponent.

1. 10 to the fourth power _____ 2. 10 to the third power _____ 3. 10 to the eighth power _____

Solve.

4. $10^3 =$ _____ $10^6 =$ _____ $10^4 =$ _____

5. $10^2 =$ _____ $10^{10} =$ _____ $10^8 =$ _____

6. $10^7 =$ _____ $10^5 =$ _____ $10^9 =$ _____

Rewrite each problem without the exponent. Then, solve.

7. $3 \times 10^2 =$ _____ $=$ _____ $8 \times 10^3 =$ _____ $=$ _____

8. $6 \times 10^4 =$ _____ $=$ _____ $4 \times 10^5 =$ _____ $=$ _____

Write each number as a number multiplied by a power of 10.

9. 7,000 = _____ 5,000 = _____ 600,000 = _____

10. 8,000,000 = _____ 40,000 = _____ 3,000,000,000 = _____

Powers of Ten

Choose numbers to complete each problem. Solve. Look for patterns.

1. _____ \times 10 = _____ 2. _____ \times 100 = _____ 3. _____ \times 1,000 = _____

_____ \times 10 = _____ _____ \times 100 = _____ _____ \times 1,000 = _____

_____ \times 10 = _____ _____ \times 100 = _____ _____ \times 1,000 = _____

_____ \div 10 = _____ _____ \div 100 = _____ _____ \div 1,000 = _____

_____ \div 10 = _____ _____ \div 100 = _____ _____ \div 1,000 = _____

_____ \div 10 = _____ _____ \div 100 = _____ _____ \div 1,000 = _____

4. _____ \times 0.1 = _____ 5. _____ \times 0.01 = _____ 6. _____ \times 0.001 = _____

_____ \times 0.1 = _____ _____ \times 0.01 = _____ _____ \times 0.001 = _____

_____ \times 0.1 = _____ _____ \times 0.01 = _____ _____ \times 0.001 = _____

_____ \div 0.1 = _____ _____ \div 0.01 = _____ _____ \div 0.001 = _____

_____ \div 0.1 = _____ _____ \div 0.01 = _____ _____ \div 0.001 = _____

_____ \div 0.1 = _____ _____ \div 0.01 = _____ _____ \div 0.001 = _____

7. Write a rule for multiplying and dividing by powers of 10.

Powers of Ten

Use what you know about multiplying and dividing by powers of 10 to answer each problem without multiplying or dividing.

1. $6 \times 10,000 =$ _____

$6 \times 1,000 =$ _____

$6 \times 100 =$ _____

$6 \times 10 =$ _____

$6 \times 1 =$ _____

$6 \div 1 =$ _____

$6 \div 10 =$ _____

$6 \div 100 =$ _____

$6 \div 1,000 =$ _____

2. $8 \times 10,000 =$ _____

$8 \times 1,000 =$ _____

$8 \times 100 =$ _____

$8 \times 10 =$ _____

$8 \times 1 =$ _____

$8 \div 1 =$ _____

$8 \div 10 =$ _____

$8 \div 100 =$ _____

$8 \div 1,000 =$ _____

3. $24 \times 10,000 =$ _____

$24 \times 1,000 =$ _____

$24 \times 100 =$ _____

$24 \times 10 =$ _____

$24 \times 1 =$ _____

$24 \div 1 =$ _____

$24 \div 10 =$ _____

$24 \div 100 =$ _____

$24 \div 1,000 =$ _____

4. $13 \times 10,000 =$ _____

$13 \times 1,000 =$ _____

$13 \times 100 =$ _____

$13 \times 10 =$ _____

$13 \times 1 =$ _____

$13 \div 1 =$ _____

$13 \div 10 =$ _____

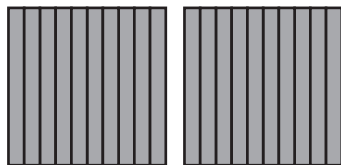
$13 \div 100 =$ _____

$13 \div 1,000 =$ _____

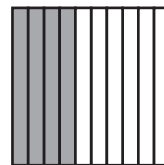
Understanding Decimals

ones		tenths
2	.	4

$$2\frac{4}{10}$$



What portion of these boxes are shaded?
two entire boxes



What portion of this box is shaded?
four-tenths of the box

2.4 (two and four-tenths)

This can be spoken, "two point four," or "two and four-tenths."

Note: When writing a decimal, if there are no whole numbers, place a zero left of the decimal point. Examples: seven-tenths = 0.7, nine-tenths = 0.9

Write each decimal.

1. three and five-tenths _____
2. six and one-tenth _____
3. eight-tenths _____
4. eight and three-tenths _____
5. three-tenths _____
6. two and one-tenth _____
7. seven-tenths _____
8. twenty and two-tenths _____
9. four-tenths _____
10. thirty-seven and two-tenths _____

Write each decimal in words.

11. 3.9 _____
12. 2.7 _____
13. 12.8 _____
14. 7.3 _____

Use $<$, $>$, or $=$ to compare the decimals.

15. 3.4 ○ 4.5
16. 6.01 ○ 2.06
17. 5.01 ○ 51.09
18. 3.02 ○ 2.03

Understanding Decimals

Write each decimal.

1. one-tenth _____
2. twenty-seven hundredths _____
3. three-thousandths _____
4. seven-tenths _____
5. forty-five hundredths _____
6. fifty-one thousandths _____
7. four hundred and one-tenth _____
8. fifty-five and three-tenths _____
9. six-tenths _____
10. one-hundredth _____

Write each decimal in words.

11. 0.04 _____
12. 0.99 _____
13. 0.8 _____
14. 4.89 _____
15. 0.06 _____

Order the numbers in each series from least to greatest.

16. 1.87, 0.187, 10.87

17. 0.045, 0.45, 0.04

18. 0.0065, 0.06, 0.006

19. 0.91, 0.44, 0.23

20. 6.07, 6.17, 6.37

21. 8.98, 8.89, 8.9
