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Introduction

The Advantage Math Series for grades 3–6 offers instruction and practice for key skills in each math strand recommended by the National Council for Teachers of Mathematics (NCTM), including

- numeration and number theory
- operations
- geometry
- measurement
- patterns, functions, and algebra
- data analysis and probability
- problem solving

Take a look at all the advantages this math series offers . . .

Strong Skill Instruction

- The **teaching component** at the top of the activity pages provides the support students need to work through the book independently.
- Plenty of **skill practice** pages will ensure students master essential math computation skills they need to increase their math fluency.
- A **problem-solving strand** is woven within skill practice pages to offer students an opportunity to practice critical thinking skills.

teaching component

Subtraction—Regrouping

27

When subtracting, look at the ones column first. If the bottom digit is greater than the top digit, you need to regroup.

Look at the ones column. Since 8 is greater than 1, you need to regroup. Take 1 ten from the tens place. Add it to the ones. Subtract the ones. Then subtract the tens.

$$\begin{array}{r} 47 \\ -18 \\ \hline 29 \end{array}$$

Circle **yes** or **no** to tell if you need to regroup. Then subtract to solve.

1	$\begin{array}{r} 43 \\ -8 \\ \hline \end{array}$ yes no	28	$\begin{array}{r} 28 \\ -16 \\ \hline \end{array}$ yes no	43	$\begin{array}{r} 43 \\ -15 \\ \hline \end{array}$ yes no	57	$\begin{array}{r} 57 \\ -28 \\ \hline \end{array}$ yes no
2	$\begin{array}{r} 80 \\ -57 \\ \hline \end{array}$ yes no	52	$\begin{array}{r} 52 \\ -12 \\ \hline \end{array}$ yes no	71	$\begin{array}{r} 71 \\ -29 \\ \hline \end{array}$ yes no	63	$\begin{array}{r} 63 \\ -44 \\ \hline \end{array}$ yes no
3	$\begin{array}{r} 32 \\ -23 \\ \hline \end{array}$ yes no	87	$\begin{array}{r} 87 \\ -48 \\ \hline \end{array}$ yes no	35	$\begin{array}{r} 35 \\ -27 \\ \hline \end{array}$ yes no	46	$\begin{array}{r} 46 \\ -18 \\ \hline \end{array}$ yes no
4	$\begin{array}{r} 23 \\ -5 \\ \hline \end{array}$ yes no	30	$\begin{array}{r} 30 \\ -22 \\ \hline \end{array}$ yes no	51	$\begin{array}{r} 51 \\ -15 \\ \hline \end{array}$ yes no	72	$\begin{array}{r} 72 \\ -33 \\ \hline \end{array}$ yes no
5	$\begin{array}{r} 46 \\ -37 \\ \hline \end{array}$ yes no	60	$\begin{array}{r} 60 \\ -26 \\ \hline \end{array}$ yes no	56	$\begin{array}{r} 56 \\ -37 \\ \hline \end{array}$ yes no	32	$\begin{array}{r} 32 \\ -8 \\ \hline \end{array}$ yes no

skill practice

Addition and Subtraction

31

Solve.

1 $7 + 4 = \underline{\quad}$ $8 + 9 = \underline{\quad}$ $5 + 6 = \underline{\quad}$ $5 + 8 = \underline{\quad}$

2 $16 + 12 = \underline{\quad}$ $8 + 21 = \underline{\quad}$ $11 - 8 = \underline{\quad}$ $14 - 6 = \underline{\quad}$

3 $15 - 8 = \underline{\quad}$ $18 - 9 = \underline{\quad}$ $19 - 11 = \underline{\quad}$ $23 - 12 = \underline{\quad}$

4

$\begin{array}{r} 21 \\ +38 \\ \hline \end{array}$	$\begin{array}{r} 74 \\ +14 \\ \hline \end{array}$	$\begin{array}{r} 58 \\ +40 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ +60 \\ \hline \end{array}$	$\begin{array}{r} 35 \\ +22 \\ \hline \end{array}$	$\begin{array}{r} 26 \\ +53 \\ \hline \end{array}$
--	--	--	---	--	--

5

$\begin{array}{r} 98 \\ -53 \\ \hline \end{array}$	$\begin{array}{r} 84 \\ -50 \\ \hline \end{array}$	$\begin{array}{r} 46 \\ -42 \\ \hline \end{array}$	$\begin{array}{r} 67 \\ -37 \\ \hline \end{array}$	$\begin{array}{r} 78 \\ -53 \\ \hline \end{array}$	$\begin{array}{r} 40 \\ -50 \\ \hline \end{array}$
--	--	--	--	--	--

6

$\begin{array}{r} 342 \\ +404 \\ \hline \end{array}$	$\begin{array}{r} 732 \\ +553 \\ \hline \end{array}$	$\begin{array}{r} 63 \\ +216 \\ \hline \end{array}$	$\begin{array}{r} 834 \\ +155 \\ \hline \end{array}$	$\begin{array}{r} 930 \\ -28 \\ \hline \end{array}$	$\begin{array}{r} 365 \\ -532 \\ \hline \end{array}$
--	--	---	--	---	--

7

$\begin{array}{r} 735 \\ -214 \\ \hline \end{array}$	$\begin{array}{r} 839 \\ -638 \\ \hline \end{array}$	$\begin{array}{r} 956 \\ -433 \\ \hline \end{array}$	$\begin{array}{r} 648 \\ -521 \\ \hline \end{array}$	$\begin{array}{r} 597 \\ -364 \\ \hline \end{array}$	$\begin{array}{r} 475 \\ -332 \\ \hline \end{array}$
--	--	--	--	--	--

problem solving

Multiplication

43

When you multiply large numbers by a 1-digit number, multiply each digit of the top number by the bottom number, starting with the ones place. Regroup if the product is 10 or above.

Solve.

1

$\begin{array}{r} 45 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 36 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 15 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 40 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 73 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 84 \\ \times 1 \\ \hline \end{array}$
---	---	---	---	---	---

2

$\begin{array}{r} 19 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 36 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 47 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 152 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 261 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 350 \\ \times 2 \\ \hline \end{array}$
---	---	---	--	--	--

3

$\begin{array}{r} 428 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 579 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 920 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 327 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 206 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 713 \\ \times 6 \\ \hline \end{array}$
--	--	--	--	--	--

4

$\begin{array}{r} 179 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 803 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 263 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 3917 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 5782 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 1429 \\ \times 5 \\ \hline \end{array}$
--	--	--	---	---	---

5

All Parcho's Restaurant, 310 burritos are sold each year. Parcho's has been open for 5 years. How many burritos have been sold since Parcho's opened? $\times 5$ 310

6

Plane tickets from Miami, Florida, to Denver, Colorado, cost \$522 each. The 4 members of the Wilson family are buying tickets from Miami to Denver. How much will the tickets cost? $\times 4$ 522

7

Megan bought 5 large bags of peanuts. There are 210 peanuts in each bag. How many peanuts does she have in all? $\times 5$ 210

Introduction

- **Mixed-practice pages** include a variety of math concepts on one workbook page. This challenges students to think through each problem rather than rely on a predictable format.

53 Mixed Practice

Solve:

- $47 \div 3$, $4 \overline{) 72}$, $26 \overline{) 37}$, $29 \overline{) 51}$, $2 \overline{) 58}$, $7 \overline{) 105}$
- 40×63 , 34×25 , $8 \overline{) 48}$, $7 \overline{) 322}$, $5763 - 3294$, $3709 - 345$
- $5 \overline{) 370}$, 55×23 , 146×13 , 453×84 , $351 + 873$, $5 \overline{) 3415}$
- $9 \overline{) 7038}$, 744×209 , $4 \overline{) 388}$, 287×32 , $2974 + 1098$, 472×265

5 The band called the Screammers is playing in town for the next 4 nights. There are 42 seats in the club and all 4 shows are sold out. How many tickets were sold in all?

6 Billy, Martha, and Tom just won \$72. If they split the money evenly, how many dollars will each friend have?

mixed practice

Assessment

- The “Take a Test Drive” pages provide practice using a **test-taking** format such as those included in national standardized and proficiency tests.
- The **tracking sheet** provides a place to record the number of right answers scored on each activity page. Use this as a motivational tool for students to strive for 100% accuracy.

69 Take a Test Drive

Test-Taking Tip: Pay attention to the labels in each answer choice. They give units of length, weight, temperature, angle, measurement, and time. Fill in the bubble beside the correct answer.

- How long is the piece of gum?
 - $\frac{1}{2}$ sec
 - $\frac{1}{2}$ in.
 - $\frac{1}{2}$ hr.
 - 0.5 cm
- 240 seconds = 4 _____
 - microseconds
 - minutes
 - hours
 - days
- What is the perimeter of the front of the television set?
 - 40 cm
 - 30 in.
 - 30 cm
 - 22 m
- _____ years = 1095 days
 - 3
 - 10
 - 4
 - 1
- What is the area of the top of the box?
 - 11 ft
 - 30 sq ft
 - 30 ft
 - 22 sq ft
- How many right angles does this figure have?
 - 5
 - 4
 - 2
 - 3
- What is the volume of the milk carton?
 - 360 sq cm
 - 320 cm
 - 360 cu cm
 - 36 cm
- \angle KMN measures ____
 - 180°
 - 135°
 - 45°
 - 90°

test-taking format

Answer Key

- Answers for each page are provided at the back of the books to make **checking answers quick and easy.**

Math Grade 3 Tracking Sheet

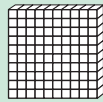
Activity	Possible Points	Actual Score	Activity	Possible Points	Actual Score
Unit 1					
1	8		26	27	
2	16		27	20	
3	16		28	20	
4	18		29	26	
5	26		30	30	
6	19		31	20	
7	19		32	18	
8	20		33	8	
9	24		34	8	
10	24		Unit 4		
11	8		35	11	
12	8		36	12	
Unit 2					
13	36		37	32	
14	36		38	33	
15	27		39	32	
16	27		40	32	
17	20		41	33	
18	30		42	33	
19	18		43	33	
20	30		44	33	
21	8		45	33	
22	8		46	33	
Unit 3					
23	36		47	23	
24	36		48	23	
25	27		49	33	
			50	33	
Unit 5					
			53	12	
			54	10	
			55	8	
			56	8	
			57	5	
			58	5	
			59	8	
			60	10	
			61	9	
			62	4	
			Unit 6		
			63	8	
			64	8	
			65	9	
			66	9	
			67	9	
			68	7	
			69	6	
			70	6	
			71	5	
			72	5	
			73	7	
			74	6	
			Unit 7		
			75	8	
			76	8	
			77	7	

tracking sheet

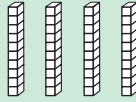
Place Value

1

★ The place where a digit appears in a number determines its value.



hundred



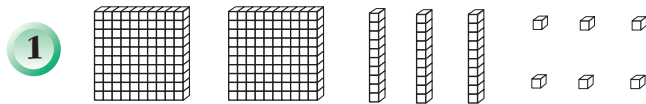
tens



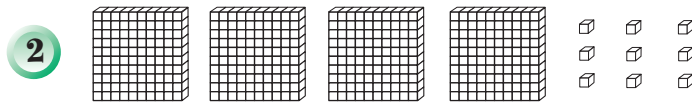
ones

$$142 = 1 \text{ hundred } 4 \text{ tens } 2 \text{ ones}$$

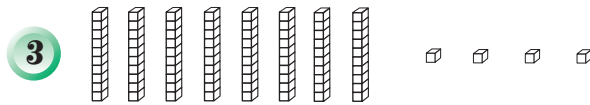
Write how many hundreds, tens, and ones in each number.



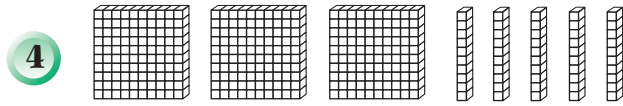
236 _____
 hundreds tens ones



409 _____
 hundreds tens ones

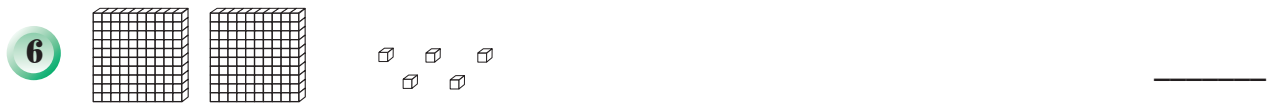
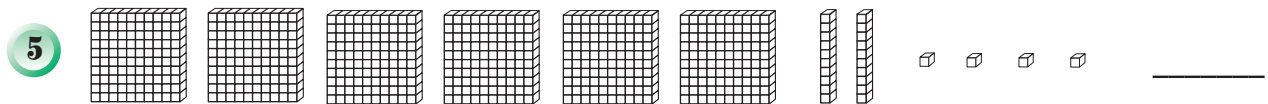


84 _____
 hundreds tens ones



350 _____
 hundreds tens ones

Write the number.



7 5 hundreds, 7 tens, 6 ones _____

8 3 hundreds, 2 tens _____

Name _____

Place Value

2

Write the number.

- | | | |
|----|---|--------------|
| 1 | 3 thousands, 4 hundreds, 5 ones | <u>3,405</u> |
| 2 | 2 thousands, 6 hundreds, 2 ones | _____ |
| 3 | 5 thousands, 2 hundreds, 6 tens, 4 ones | _____ |
| 4 | 7 thousands, 9 hundreds, 3 tens | _____ |
| 5 | eight thousand, three hundred, forty | _____ |
| 6 | six thousand, fifty-three | _____ |
| 7 | 5 hundred, eighty-one | _____ |
| 8 | 6 thousand, 4 hundred, twenty-one | _____ |
| 9 | 10 more than 465 | <u>475</u> |
| 10 | 100 more than 1,909 | _____ |
| 11 | 1 less than 1,439 | _____ |
| 12 | 50 less than 552 | _____ |
| 13 | 100 less than 3,542 | _____ |
| 14 | 10 more than 704 | _____ |
| 15 | 1,000 more than 643 | _____ |
| 16 | 1,000 less than 1,411 | _____ |

Name _____

Expanded Form

3

★ $2,971 = 2,000 + 900 + 70 + 1$ $350 = 300 + 50$

2,971 and 350 are written in **standard form**.

$2,000 + 900 + 70 + 1$ and $300 + 50$ are written in **expanded form**.

Write the number in standard form.

1 $7,000 + 400 + 80 + 3 =$ _____

$400 + 60 + 1 =$ _____

2 $400 + 30 + 5 =$ _____

$3,000 + 200 + 20 + 7 =$ _____

3 $600 + 30 + 1 =$ _____

$4,000 + 60 + 8 =$ _____

4 $5,000 + 400 + 7 =$ _____

$100 + 20 + 2 =$ _____

5 $8,000 + 100 + 60 + 7 =$ _____

$700 + 6 =$ _____

6 $4,000 + 200 + 30 =$ _____

$4,000 + 400 =$ _____

Write the number in expanded form.

7 $1,863 =$ _____

8 $942 =$ _____

9 $4,730 =$ _____

10 $5,072 =$ _____

Expanded Form

4

Write the number in expanded form.

1 $14,367 =$ _____

2 $9,208 =$ _____

3 $1,029 =$ _____

4 $594 =$ _____

Get Ahead

Write one digit in each square to complete the cross-number puzzle.

Across

- A. $5,000 + 300 + 20 + 1$
- C. ninety-three
- E. 4 thousands, 3 hundreds, 6 tens, 7 ones
- G. 10 less than 169
- I. $9,000 + 200$
- J. 4 tens
- K. $6,000 + 700 + 3$

Down

- A. $50 + 8$
- B. one hundred ninety-three
- D. 3 thousands, 6 hundreds, 1 ten
- E. 100 more than 342
- F. 7 tens, 5 ones
- H. 1 more than 946
- I. $900 + 6$

