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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

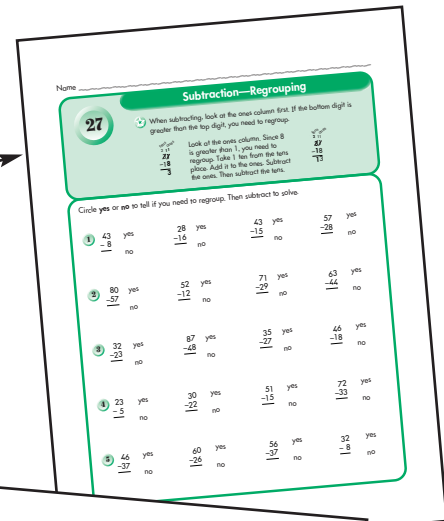
- numeration and number theory
- operations
- geometry
- measurement
- patterns, functions, and algebra
- data analysis and probability
- problem solving

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.

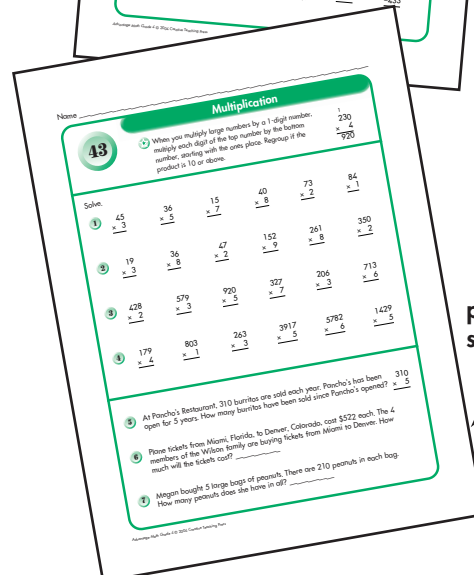
teaching  
component



skill  
practice



problem  
solving



# 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.

## 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.

## Answer Key

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

53 Mixed Practice

Solve.

- $47 \div 3$
- $6 \overline{)72}$
- $2637 \div 39$
- $29 \overline{)61}$
- $2 \overline{)58}$
- $7 \overline{)105}$
- $40 \div 83$
- $34 \times 25$
- $8 \overline{)68}$
- $7 \overline{)322}$
- $5763 \div 3294$
- $37.09 \div 34.5$
- $5 \overline{)370}$
- $85 \div 23$
- $146 \times 13$
- $433 \div 84$
- $351 \div 872$
- $5 \overline{)3415}$
- $9 \overline{)7038}$
- $746 \div 209$
- $4 \overline{)388}$
- $287 \div 32$
- $2974 \div 1098$
- $472 \div 965$

6 The band called the Screamers 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?

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

mixed practice

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. Fill in the bubble beside the correct answer.

- How long is the piece of gum?  
☐  $\frac{1}{2}$  sec ☐  $\frac{1}{2}$  in.  
☐  $\frac{1}{2}$  in. ☐ 5 cm
- 240 seconds = 4 \_\_\_\_\_  
☐ seconds ☐ minutes  
☐ hours ☐ days
- What is the perimeter of the floor of the television set?  
☐ 40 cm ☐ 30 in.  
☐ 30 cm ☐ 22 m
- 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 ☐ 38 cm
- $\angle KMN$  measures \_\_\_\_\_.  
☐ 180° ☐ 135°  
☐ 45° ☐ 90°

test-taking format

Math Grade 3 Tracking Sheet

Activity	Possible Points	Points	Activity	Possible Points	Points
<b>Unit 1</b>					
1	8		27	20	
2	16		28	30	
3	16		29	26	
4	18		30	30	
5	26		31	20	
6	19		32	18	
7	19		33	8	
8	20		34	8	
9	24		35	11	
10	24		36	12	
11	8		37	32	
12	8		38	33	
<b>Unit 2</b>					
13	36		39	20	
14	36		40	32	
15	27		41	33	
16	27		42	33	
17	20		43	33	
18	30		44	25	
19	18		45	33	
20	30		46	33	
21	8		47	23	
22	8		48	23	
23	36		49	33	
24	36		50	33	
25	27		51	8	
<b>Unit 3</b>					
52	12		53	12	
54	10		54	10	
55	8		55	8	
56	8		56	8	
57	8		57	8	
58	8		58	8	
59	8		59	8	
60	10		60	10	
61	9		61	9	
62	4		62	4	
<b>Unit 4</b>					
63	8		63	8	
64	8		64	8	
65	9		65	9	
66	9		66	9	
67	9		67	9	
68	7		68	7	
69	6		69	6	
70	6		70	6	
71	5		71	5	
72	5		72	5	
73	7		73	7	
74	6		74	6	
75	8		75	8	
76	8		76	8	
77	7		77	7	

tracking sheet

Name \_\_\_\_\_

## Place Value

1

Millions			Thousands			Ones				
Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones		
7	0	3	,	6	5	1	,	8	9	6

**Standard form:** 703,651,896

**Short word form:** 703 million, 651 thousand, 896

**Expanded form:**  $700,000,000 + 3,000,000 + 600,000 + 50,000 + 1,000 + 800 + 90 + 6$

Write each number in standard form.

- 1 65 thousand, 4 hundred, 9 \_\_\_\_\_
- 2  $20,000,000 + 6,000,000 + 500,000 + 3,000 + 70$  \_\_\_\_\_
- 3 three hundred eighty million, forty-five \_\_\_\_\_
- 4  $70,000,000 + 70,000 + 70$  \_\_\_\_\_
- 5 932 million, 408 thousand \_\_\_\_\_
- 6  $400,000,000 + 300,000 + 700$  \_\_\_\_\_

Write the value of the 3 in each number.

- 7 4,386 \_\_\_\_\_ 43,086 \_\_\_\_\_
- 8 403,806 \_\_\_\_\_ 37,402,088 \_\_\_\_\_
- 9 837,604 \_\_\_\_\_ 6,478,531 \_\_\_\_\_

- 10 Earth is about ninety-three million miles from the sun. Write the number in standard form. \_\_\_\_\_
- 11 Mars is 141,710,000 miles from the sun. Write the number in short word form.  
\_\_\_\_\_

Name \_\_\_\_\_

2

## Compare and Order Numbers



Compare 3,748 and 3,487. Which number is greater?

3,748    7 hundreds > 4 hundreds

> greater than

3,487    3,748 > 3,487

< less than

**3,748 is greater than 3,487**

= equals

Complete the number sentence.

1    842 ○ 598

423 ○ 424

2    736 ○ 763

1,234 ○ 2,143

3    6,408 ○ 6,840

83,303 ○ 83,033

4    137,627 ○ 141,672

573,240 ○ 572,304

5    9,612,924 ○ 9,596,999

45,866,854 ○ 45,686,854

Order the numbers from least to greatest.

6    834, 348, 843, 438 \_\_\_\_\_

7    45,672 46,762 45,692 \_\_\_\_\_

8    327,605 325,750 325,805 \_\_\_\_\_

9    1,375,671 1,373,917 1,375,617 \_\_\_\_\_

10    63,367 63,736 67,673 67,376 \_\_\_\_\_

11    Grant School has 1,248 students. Lincoln School has 2,104 students. Franklin School has 1,099 students. Which school has the greatest number of students?

\_\_\_\_\_

12    Which school has the least number of students? \_\_\_\_\_

Name \_\_\_\_\_

## Estimate Sums and Differences

3

★ To estimate, round numbers, then add or subtract.

Estimate:  $729 + 1,853$   
 $700 + 2,000 = 2,700$   
 **$729 + 1,853$  is *about* 2,700.**

Estimate. Write the rounded numbers and the sum or difference.

- |   |                    |                       |
|---|--------------------|-----------------------|
| 1 | $5,095 + 836$      | _____ + _____ = _____ |
| 2 | $4,365 - 1,706$    | _____ - _____ = _____ |
| 3 | $1,143 - 683$      | _____ - _____ = _____ |
| 4 | $23,087 + 6,999$   | _____ + _____ = _____ |
| 5 | $372,000 - 99,995$ | _____ - _____ = _____ |
| 6 | $408,973 + 48,073$ | _____ + _____ = _____ |

Estimate the sum or difference.

- |    |                           |                           |
|----|---------------------------|---------------------------|
| 7  | $586 + 3,205$ _____       | $7,386 - 971$ _____       |
| 8  | $17,400 - 6,035$ _____    | $34,605 + 19,543$ _____   |
| 9  | $36,087 - 8,034$ _____    | $3,572 + 8,124$ _____     |
| 10 | $326,799 - 188,000$ _____ | $492,765 + 603,091$ _____ |

- 11 The cafeteria served 894 bananas and 1,237 apples during lunch. About how much fruit was served? \_\_\_\_\_

- 12 One day, 4,326 people ate at the cafeteria. The next day, 3,784 people ate there. About how many people ate at the cafeteria during those two days?  
\_\_\_\_\_

Name \_\_\_\_\_

## Add and Subtract Numbers

4

★ Find the difference of 26,053 and 12,786.

Subtract ones.  
Regroup if needed.

$$\begin{array}{r} 4 \text{ } 13 \\ 26,0\cancel{5}3 \\ -12,786 \\ \hline 7 \end{array}$$

Subtract tens.  
Regroup if needed.

$$\begin{array}{r} 9 \text{ } 14 \text{ } 13 \\ 26,0\cancel{5}3 \\ -12,786 \\ \hline 67 \end{array}$$

Subtract hundreds.  
Regroup if needed.

$$\begin{array}{r} 5 \text{ } 9 \text{ } 14 \text{ } 13 \\ 2\cancel{6},0\cancel{5}3 \\ -12,786 \\ \hline 267 \end{array}$$

Subtract thousands.

$$\begin{array}{r} 5 \text{ } 9 \text{ } 14 \text{ } 13 \\ 2\cancel{6},0\cancel{5}3 \\ -12,786 \\ \hline 3,267 \end{array}$$

Subtract ten thousands.

$$\begin{array}{r} 5 \text{ } 9 \text{ } 14 \text{ } 13 \\ 2\cancel{6},0\cancel{5}3 \text{ minuend} \\ -12,786 \text{ minuend} \\ \hline 13,267 \text{ difference} \end{array}$$

Find the sums and differences.

1	$\begin{array}{r} 97 \\ +45 \\ \hline \end{array}$	$\begin{array}{r} 56 \\ -29 \\ \hline \end{array}$	$\begin{array}{r} 386 \\ +636 \\ \hline \end{array}$	$\begin{array}{r} 716 \\ -649 \\ \hline \end{array}$	$\begin{array}{r} 684 \\ -294 \\ \hline \end{array}$	$\begin{array}{r} 278 \\ +103 \\ \hline \end{array}$
---	--	--	--	--	--	--

2	$\begin{array}{r} 326 \\ +845 \\ \hline \end{array}$	$\begin{array}{r} 3,645 \\ -1,248 \\ \hline \end{array}$	$\begin{array}{r} 73,864 \\ +16,136 \\ \hline \end{array}$	$\begin{array}{r} 60,216 \\ -39,583 \\ \hline \end{array}$	$\begin{array}{r} 4,827 \\ +1,608 \\ \hline \end{array}$	$\begin{array}{r} 7,821 \\ -2,039 \\ \hline \end{array}$
---	--	--	--	--	--	--

3	$\begin{array}{r} 2,284 \\ -2,159 \\ \hline \end{array}$	$\begin{array}{r} 9,352 \\ -3,673 \\ \hline \end{array}$	$\begin{array}{r} 6,833 \\ +2,960 \\ \hline \end{array}$	$\begin{array}{r} 48,956 \\ -27,680 \\ \hline \end{array}$	$\begin{array}{r} 43,276 \\ +592,037 \\ \hline \end{array}$	$\begin{array}{r} 630,017 \\ -54,260 \\ \hline \end{array}$
---	--	--	--	--	---	---

4	$\begin{array}{r} 40,352 \\ -36,064 \\ \hline \end{array}$	$\begin{array}{r} 57,293 \\ +65,296 \\ \hline \end{array}$	$\begin{array}{r} 938,774 \\ -625,803 \\ \hline \end{array}$	$\begin{array}{r} 629,274 \\ +13,492 \\ \hline \end{array}$	$\begin{array}{r} 268,934 \\ -145,089 \\ \hline \end{array}$	$\begin{array}{r} 865,733 \\ -453,924 \\ \hline \end{array}$
---	--	--	--	---	--	--

5 Bigg City has a population of 349,673. When Bigg College is in session, the population jumps to 398,412. How many people go to Bigg College?  
\_\_\_\_\_

6 During summer school at Bigg College, 2,948 students stay to take classes. 835 students stay to work. How many students stay during the summer?  
\_\_\_\_\_