ADVANTAGE Math

Grade 5

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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 . . .

teaching component

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.
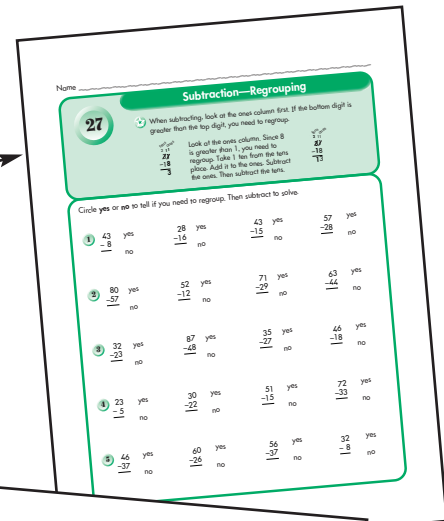
skill practice

problem solving
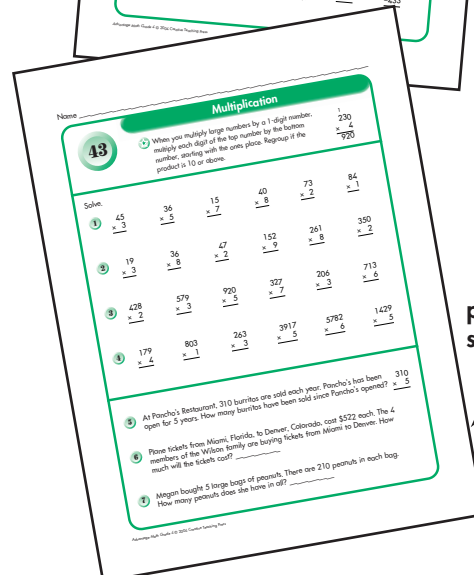
Introduction

- **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.**

mixed practice

test-taking format

tracking sheet

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 _____

Compare and Order Numbers

2

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

3,**7**48   **7** hundreds > **4** hundreds   > greater than
3,**4**87   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 _____

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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? _____

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.	Subtract tens. Regroup if needed.	Subtract hundreds. Regroup if needed.	Subtract thousands.	Subtract ten thousands.
4 13	9 14 13	5 9 14 13	5 9 14 13	5 9 14 13
26,0**5**3	26,**0**5**3**	2**6**,**0**5**3**	2**6**,**0**5**3**	2**6**,**0**5**3** minuend
−12,78**6**	−12,7**86**	−12,**7**86	−**12**,786	−**12**,786 minuend
7	**6**7	**2**67	**3**,267	**13**,267 difference

Find the sums and differences.

1

97 +45	56 −29	386 +636	716 −649	684 −294	278 +103

2

326 +845	3,645 − 1,248	73,864 +16,136	60,216 −39,583	4,827 +1,608	7,821 −2,039

3

2,284 −2,159	9,352 −3,673	6,833 +2,960	48,956 −27,680	43,276 +592,037	630,017 − 54,260

4

40,352 −36,064	57,293 +65,296	938,774 −625,803	629,274 + 13,492	268,934 −145,089	865,733 −453,924

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?

_____