

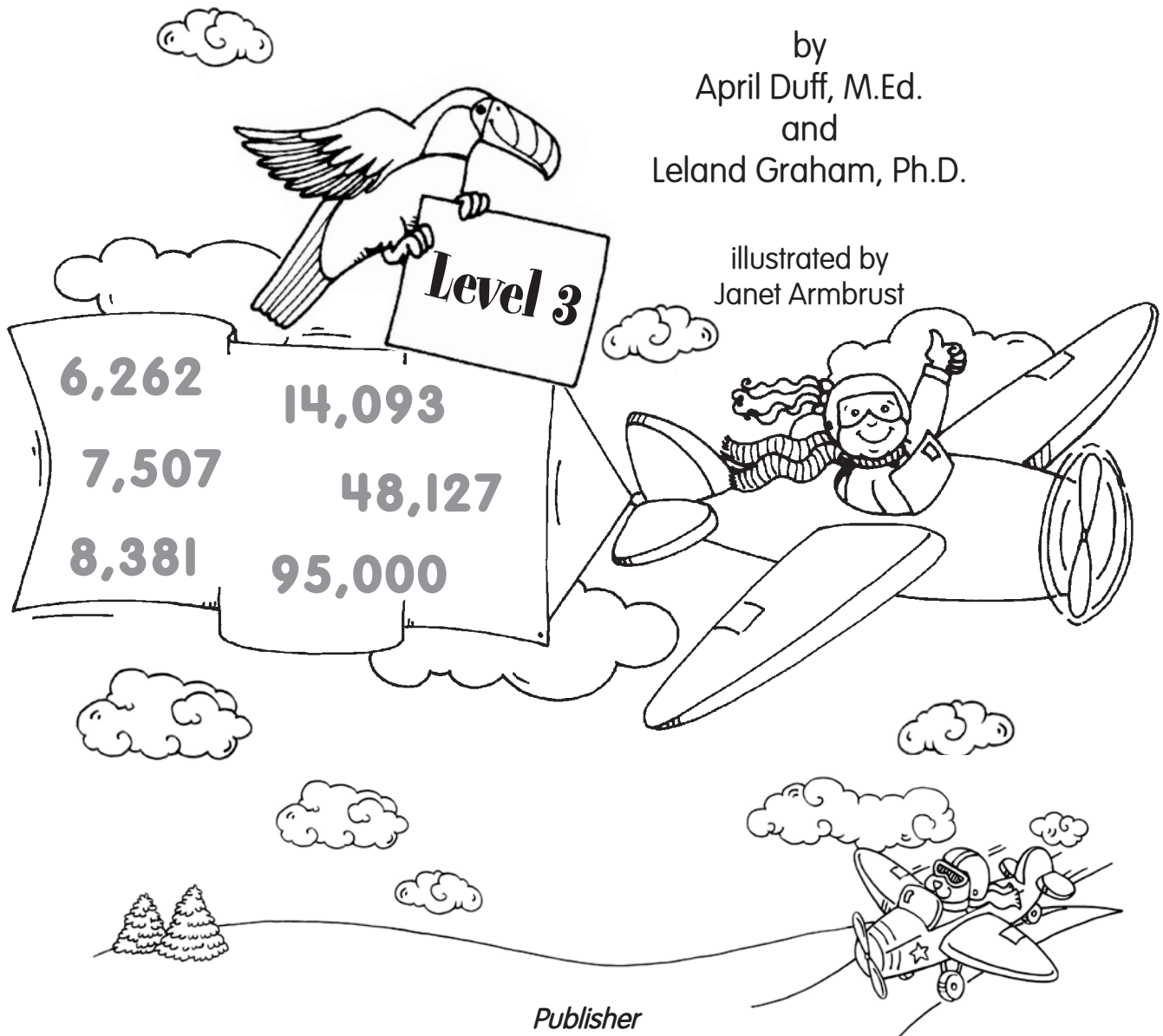
Specific Skills

Place Value

Practice Pages and Easy-to-Play Learning Games
for Base-Ten Number Concepts

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Introduction

In *Specific Skills: Place Value* you will find a collection of math activities, pattern pages, and easy-to-play learning games to help students, especially struggling learners, develop an understanding of base-ten concepts and number quantities. Each reproducible book in this series also includes support materials such as assessment opportunities in the form of a pretest/posttest, which has been formatted according to national standards. A special feature in this series is the “Place Value for Parents” letter. This reproducible handout incorporates math-related literature with fun at-home activities to further enhance the child’s understanding of place value. The authors believe that the letter will also encourage parental involvement. Finally, provided in the back of each resource book is a list of Web sites that may be useful to teachers and parents. Some of the Web sites are information based, which could be helpful when designing instructional lessons. Other Web sites offer place value games that children may enjoy playing while mastering number concepts.

Specific Skills: Place Value — Level 3 is aligned with NCTM (National Council of Teachers of Mathematics) Standards. The practice pages and partner games can be used in a variety of ways, including whole group lessons, independent student work, or as enrichment activities at home. Based on various standards, the activities cover the following essential math skills:

- Naming and writing numerals 1–99,999
- Counting ones, tens, hundreds, thousands, and ten thousands
- Using expanded notation
- Ordering and comparing numbers
- Adding and subtracting three- and four-digit numbers with regrouping
- Rounding to the nearest ten and hundred

Understanding numbers is an essential key for place value concept development. Once your students have had experience with numbers up to 999 and comprehend the significance of ones, tens, and hundreds, they may be interested in working with larger numbers. In the Level 3 activities and games, children will be introduced to the thousands and ten thousands places in large numbers and use place value models to represent numbers up to 9,999. The power of 10 and how it applies to the value of the tens place, hundreds place, and thousands place is also reinforced. To help students internalize this concept, it is recommended that students construct number models which can be done with base-ten proportional blocks or paper manipulatives. For additional practice in reading and writing numbers 1,000–10,000 and higher, students will enjoy playing the games “Number Treasure” and “Deep Sea Diving.” Constructing number sets using base-ten paper models and rounding to the nearest hundred are the main objectives for the game “Numbers Ahoy.” Students will also enjoy the challenge of interpreting and writing the standard form for expanded numbers shown on monster truck wheels when playing the game “Rev Up Math.” Finally, for those students who need additional practice in rounding numbers to the nearest ten, the game “Goal!” will entice them into playing an extra round of “kicking” soccer balls into the nets. Learning about place value concepts can be fun when combined with activities and games!

Pretest/Posttest

Directions: Circle the correct answers.

1. What is the number?

hundreds	tens	ones
5	9	8

A. 895 B. 589 C. 598

2. I am 100 more than 3,562.
What number am I?

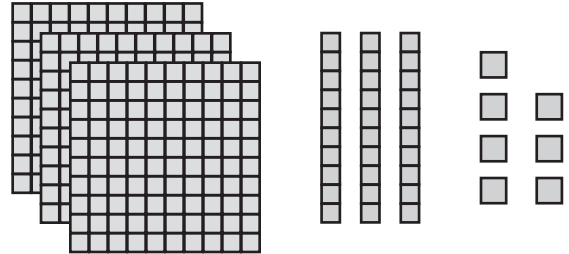
A. 3,462 B. 3,662 C. 4,562

3. Which number matches this
written form?

six thousand forty-one

A. 6,041 B. 600,401 C. 641

4. What number is shown using
this base-ten model?



A. 3,037 B. 3,337 C. 337

5. Identify the standard form of this
number.

2,000 + 700 + 70

A. 1,277 B. 2,770 C. 20,770

6. Which number comes between
these two numbers?

2,149, _____, 2,151

A. 2,150 B. 2,148 C. 153

Pretest/Posttest (Continued)

Directions: Circle the correct answers.

7. These numbers are in order from greatest to least. Fill in the blank.

4,655, 2,815, _____, 936

A. 2,971 B. 1,174 C. 914

8. Compare the numbers.

5,324 ○ 3,542

A. > B. = C. <

9. What number is 1,000 less than the given number?

7,408

A. 7,308 B. 8,408 C. 6,408

10. What is the value of 8 in this number?

18,627

A. 80,000 B. 8,000 C. 800

11. Add.

$$\begin{array}{r} 5,253 \\ + \quad 68 \\ \hline \end{array}$$

A. 5,321 B. 5,211 C. 5,305

12. Subtract.

$$\begin{array}{r} 13,400 \\ - \quad 2,305 \\ \hline \end{array}$$

A. 15,719 B. 13,109 C. 11,095