



100 Bugs! A Counting Book



How many ways can bugs add up to ten?

AUTHOR:

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A young brother and sister wake up early on the farm. They find many different kinds of bugs count and many ways to add to ten. Count along with them and by the end of the story you will have counted to one-hundred!

Ages: 3 to 7 years

Interest Level:

Preschool to 2nd Grade

ATOS Reading Level:

Not available

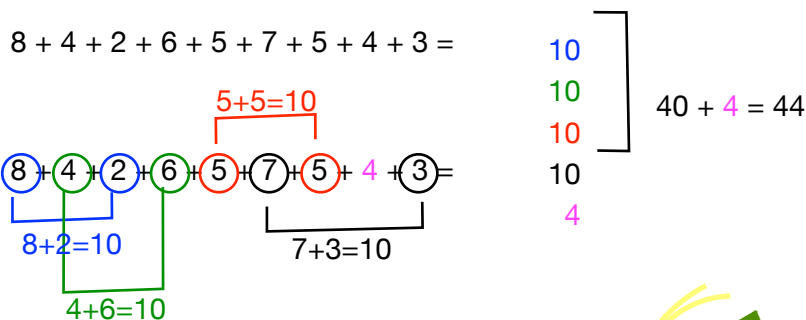
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Topics: addition, counting, counting on

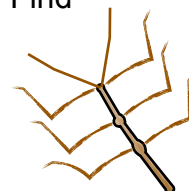
Math Connections: Use *100 Bugs!* to develop the concept of counting on, to recognize pairs of numbers that add to ten, and to practice simple addition. Strengthening these skills will help your child develop fluency in adding a group of numbers. For example if you have nine numbers to add together, this can be solved more easily by finding the pairs of numbers that add up to ten:



There is a four that still needs to be added. The four groups of numbers that equal 10 make 40; add the 4 and you've got 44. With practice, this can be done using mental math.

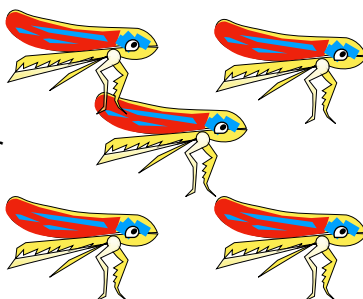
While reading this story, notice that on each page there are two groups of bugs that add up to ten: one and nine, two and eight, three and seven, etc. For younger children introduce counting on: count the first group of bugs and then **count on** to ten with the second group. For the leafhoppers, it will sound like "one, two, three. So there are three leafhoppers in that first group. Let's add the next group: remember you already have *three* ...four, five, six, seven, eight, nine, ten." When you walk in your yard or park, see if you can find ten of the same kind of bugs.

For slightly older children, practice adding the two groups of bugs together. For example, on the ladybugs' page the child could count each group and then add them together ($4 + 6 = 10$). Find other items you can count in groups and then add together to make ten.



Extension Questions:

1. What is your favorite bug in the book? What is that bug's pair of numbers that add up to ten?
2. At the end of this book you can find out more about the bugs and plants mentioned in the story. Some of the bugs and plants may not be found where you live. Why do you think that is? Which of the bugs do you wish you could see where you live?
3. When you finish reading this book and counting all the bugs, you will have counted to one hundred! What comes after one hundred?



Vocabulary for Building Math Concepts	eight, fifty, five, four, nine, one hundred, one, seven, six, ten, three, two
Vocabulary for Extending Math Concepts	counting on, skip counting, tens
Vocabulary for Reading Comprehension	aster, autumn joy, bugbane, bumblebee, butterflies, coralbells, damselflies, dragonflies, katydid, ladybugs, leafhopper, lightening bug, phlox, snakeroot, sneezeweed, spittlebug, walkingstick, woodland sage, yarrow



Genre: Fiction

Classification: Picture Story Book

Spanish Title: Not available

Related Books: *Quack and Count* by Keith Baker

Find this book at your local library: https://www.worldcat.org/title/100-bugs-a-counting-book/oclc/992766182&referer=brief_results

Early Math Project Resources:

Fishing for Ten: <https://bit.ly/35zYIDI> (English)

Fishing for Ten (Spanish)

Bumblebee Cards: <https://bit.ly/2Vs6bzS> (English)

Bumblebee Cards: (Spanish)

Butterfly Cards: <https://bit.ly/2Jt8VdL> (English)

Butterfly Cards (Spanish)

Walking Stick Cards: <https://bit.ly/36tkQRT> (English)

Walking Stick Cards (Spanish)

Spittlebug Cards: <https://bit.ly/33zJXAv> (English)

Spittlebug Cards (Spanish)

Ladybug Cards: <https://bit.ly/39yROCu> (English)

Ladybug Cards (Spanish)

Lightning Bugs Cards: <https://bit.ly/3fUfJgC> (English)

Lightning Bugs Cards (Spanish)

Damselfly Cards: <https://bit.ly/3oiqzjD> (English)

Damselfly Cards (Spanish)

Leafhopper Cards: <https://bit.ly/3logqQI> (English)

Leafhopper Cards (Spanish)

Katydid Cards: <https://bit.ly/37tEnAO> (English)

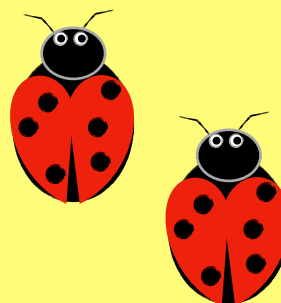
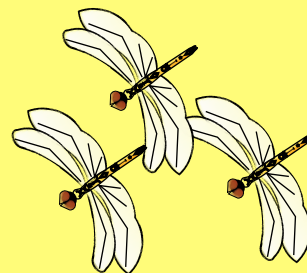
Katydid Cards (Spanish)

Dragonfly Cards: <https://bit.ly/3oeoBRm> (English)

Dragonfly Cards (Spanish)

Online Resources:

Using 100 Bugs! For educational activities by Kate Narita: <https://bit.ly/2J8UDPf>



Age/Grade Level	Related Preschool Foundations and CA State Standards
Preschool/TK	Preschool Learning Foundations https://bit.ly/34vEeN3
Preschool/TK	Number Sense 1.1 Recite numbers in order with increasing accuracy. 1.2 Recognize and know the name of some written numerals. 1.4 Count objects, using one-to-one correspondence (one object for each number word) with increasing accuracy. 1.5 Understand, when counting, that the number name of the last object counted represents the total number of objects in the group (i.e., cardinality).
Grades K-3	California Common Core State Math Standards K-12 https://bit.ly/31No7bP
Kindergarten	Counting and Cardinality K.CC.1, K.CC.2 Know number names and the count sequence. K.CC.4, K.CC.5 Count to tell the number of objects. Operations and Algebraic Thinking K.OA.4 For any number from 1 to 9, find the number that makes 10 when added to the given number...
Grade 1	Operations and Algebraic Thinking 1.OA.1 Represent and solve problems involving addition and subtraction. 1.OA.3 Understand and apply properties of operations and the relationship between addition and subtraction. 1.OA.7 Work with addition and subtraction equations.
Grade 2	Operations and Algebraic Thinking 2.OA.1 Represent and solve problems involving addition and subtraction. 2.OA.2. Add and subtract within 20. Number and Operations in Base Ten 2.NBT.2 Count within 1000; skip-count by 2s, 5s, 10s, and 100s.

