29. Twelve Ways to Get to Eleven

- USE A NUMBER LINE TO DETERMINE A QUANTITY
- RECOGNIZE THAT DIFFERENT PAIRS OF ADDENDS CAN COMBINE TO MAKE THE SAME SUM
- REVIEW THE COMPONENTS OF A NUMBER SENTENCE

STUDENT NEEDS: 30 single blocks number line (plastic or paper) worksheets

TEACHER NEEDS: copy of the book 12 Ways to Get to 11 (Simon & Schuster Children's, ISBN 0689808925)





7. <u>3</u> + <u>2</u> + <u>1</u> + <u>5</u> = <u>11</u> 8. <u>1</u> + <u>2</u> + <u>4</u> + <u>4</u> = <u>11</u> 9. <u>7</u> + <u>2</u> + <u>1</u> + <u>1</u> = <u>11</u> 10.3+3+3+2=11II. 1 + 10 = 11 12. 5 + 3 + 2 + 1 = 11

HELPFUL HINTS: Teacher should read the book first and understand the answer key (provided).

GROUP ACTIVITY:

Using the worksheets 1 and 2...

- 1. Review an example of a number sentence, reminding students that the answer is called the sum and that the numbers we add together are called addends.
- 2. Without showing the cover or mentioning the title of the book, begin reading *Twelve Ways to Get to Eleven*.
- 3. Read, "Pick up nine pinecones from the forest floor."
- 4. Students write the number 9 in the space for the first addend in the first number sentence.
- 5. Students place nine blocks on their number lines.
- 6. Continue to read, "and two acorns."
- 7. Students write the number 2 in the second space on their worksheet.
- 8. Students place two additional blocks on their number lines.
- 9. Ask what the total, or sum, is. (11)
- 10. Students write the number 11 to the right of the equals sign in the first number line.
- 11. Continue reading the book, stopping after each number is introduced. Give students time to write the number and to place that many blocks on their number lines.
- 12. At some point a student will say, "I bet it will be 11." Ask why he/she thinks that. Turn nto the cover and discuss the name of the book.
- 13. Explain that there is more than one way to create the same sum. Different combinations of addends can be used to create the same sum.

My number is 18Here are 3 ways to make my number: 1. $\underline{6} + \underline{6} + \underline{6} = \underline{18}$ 2. $\underline{10} + \underline{8} = \underline{18}$ 3. $\underline{4} + \underline{3} + \underline{6} + \underline{5} = \underline{18}$

Answers will vary.

INDEPENDENT WORK:

Using worksheet 3...

- 1. Each student picks a number between 10 and 30 and writes it at the top of the worksheet.
- 2. Students place that many blocks on a number line.
- 3. Students separate the blocks into three groups.
- 4. Ask, "If we put all the blocks back together, how many blocks would we have?"
- 5. Students count the number of blocks in each group and write the numbers as addends in the first number sentence on their worksheet.
- 6. Students write the total number of blocks (the number they picked) as the sum in the number sentence.
- 7. Repeat, separating the blocks into two addends, then four addends.

OPTIONAL EXTENSION:

 Create a class book on large paper with student illustrations, such as Ten Ways to Find Twelve Animals at the Zoo or Nine Ways to Find Fifteen Things at the Beach.

Assessment:

DOES THE STUDENT:

- place the correct number of blocks on the number line for each addend
- read the total number of blocks on the number line correctly
- write the correct numbers in the number sentences
- break their number into three different combinations of addends

Differentiation:

EXTENSION:

- Students complete worksheet 3 without using blocks.

Name:

12 Ways to Make 11



II

Name:



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Here are 3 ways to make my number:

