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E D U C A T I O N

Maths the Write Way, Level 1, was written by
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ISBN 1 74025 189 X Code #6051

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★ TO THE TEACHER ★

Book 1, CSF Level 2

One of the most important aspects of teaching maths is communication. Writing, speaking, explaining or drawing can help your students internalise what they have learned and clarify their own thinking. Communication can also act as a powerful tool for you to assess the thinking of your students.

Your students should be encouraged to use strategies that foster the art of communication. We have incorporated a variety of strategies for your students to utilise in ***Maths the Write Way***. These include asking the students to:

- Write their own word problems
- Communicate orally
- Identify key words and explain their importance
- Create their own games, puzzles, poems
- Summarise their work
- Investigate other ways to solve a problem
- Make predictions and draw conclusions
- Work with a group to share ideas and solve problems.

Maths the Write Way contains seven lessons. Each lesson includes two Investigations, two Assessments and a Home Involvement activity. The Home Involvement activities are included as Reproducible sheets at the back of the book. These may be copied and distributed for students to take home. Hints are included to provide clues to the solution.

Vocabulary activities, following Lessons 3 and 7, emphasise the importance of mathematical language. The Review will help you assess the work of your students.

In ***Maths the Write Way***, we have provided a forum for you to instruct as well as assess. We encourage students to look for a variety of ways to solve problems. The process – not just the solution – must be emphasised. Working and sharing ideas in co-operative groups will enhance understanding and communication.

The Teacher Guide includes:

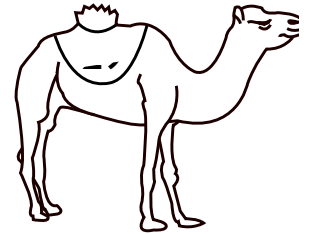
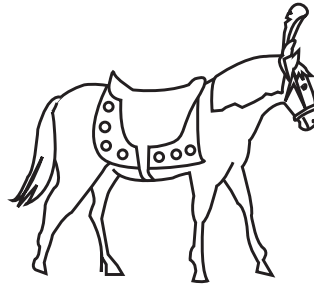
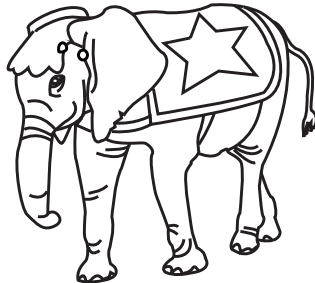
- Listing of lesson objectives and necessary materials
- Key vocabulary and concepts for the lesson
- Suggestions for discussing key mathematical concepts
- Sample solutions to all Investigations and Assessments
- Suggested strategies for solving problems
- Reproducible pages for use with selected activities

The program will with a variety of instructional approaches. You may want to complete some activities with the whole class. Others may be more appropriate for individuals or small groups. Depending on your students' reading abilities, you may want to read aloud the directions for each activity before assigning it. Most investigations end with an oral explanation and/or writing activity. If students are not ready to write, you may want to record their answers on an experience chart. The oral explanations and writing activity are crucial to the Investigations, as they help students clarify thinking.

We are sure you will find ***Maths the Write Way*** a valuable resource for supplementing and enhancing your mathematics instructional program.

★ INVESTIGATION 1 ★

The circus is in town! The animals have numbers, but the numbers are not in order. Can you put the animals in the correct order?

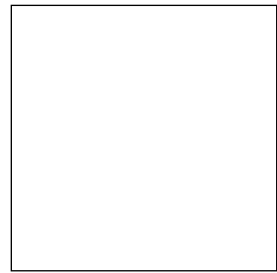
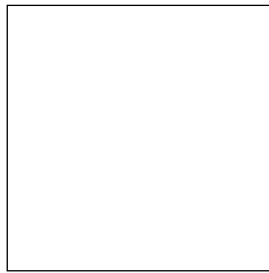
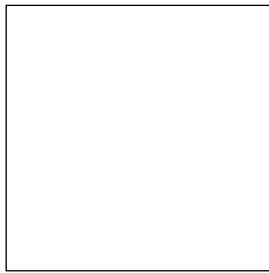
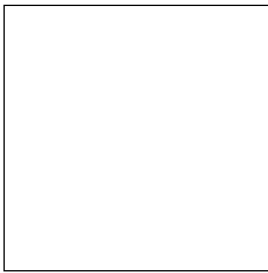


Step 1: Cut out all the animals on your worksheet. Look at their numbers.

Step 2: Paste the animals in the place that they belong. Pay attention to the numbers.

Hint: Look at the numbers in the tens place and the ones place.

Solution:



Write a sentence that tells how you found your answer.

★ INVESTIGATION 2 ★

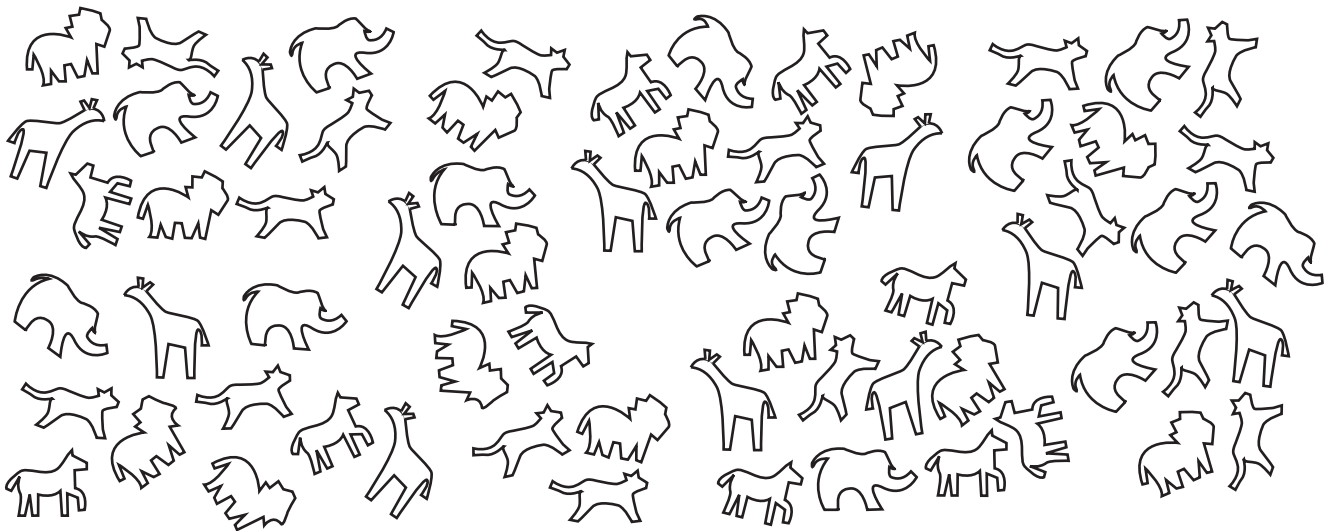
For José's birthday, his family and friends took him to the circus. After the circus, they decorated animal biscuits. José's mother put the biscuits on plates. She put 10 biscuits on each plate.

Step 1: Draw a circle around groups of 10 biscuits.

Step 2: Count the number of groups.

Hint: Remember that each plate holds 10 biscuits. Don't circle biscuits that don't make a group of 10.

Solution:



1. How many biscuits are there all together? _____
2. How many plates with 10 biscuits are there? _____
3. How many biscuits are left over? _____
4. Write a sentence that tells how you found the answers. _____

★ ASSESSMENT 1 ★

Write the missing number. Then write a sentence that tells how you found your answer.

Solution:



Write a sentence that tells how you found your answer.

★ ASSESSMENT 2 ★

Write a number in the box to make this number sentence true.

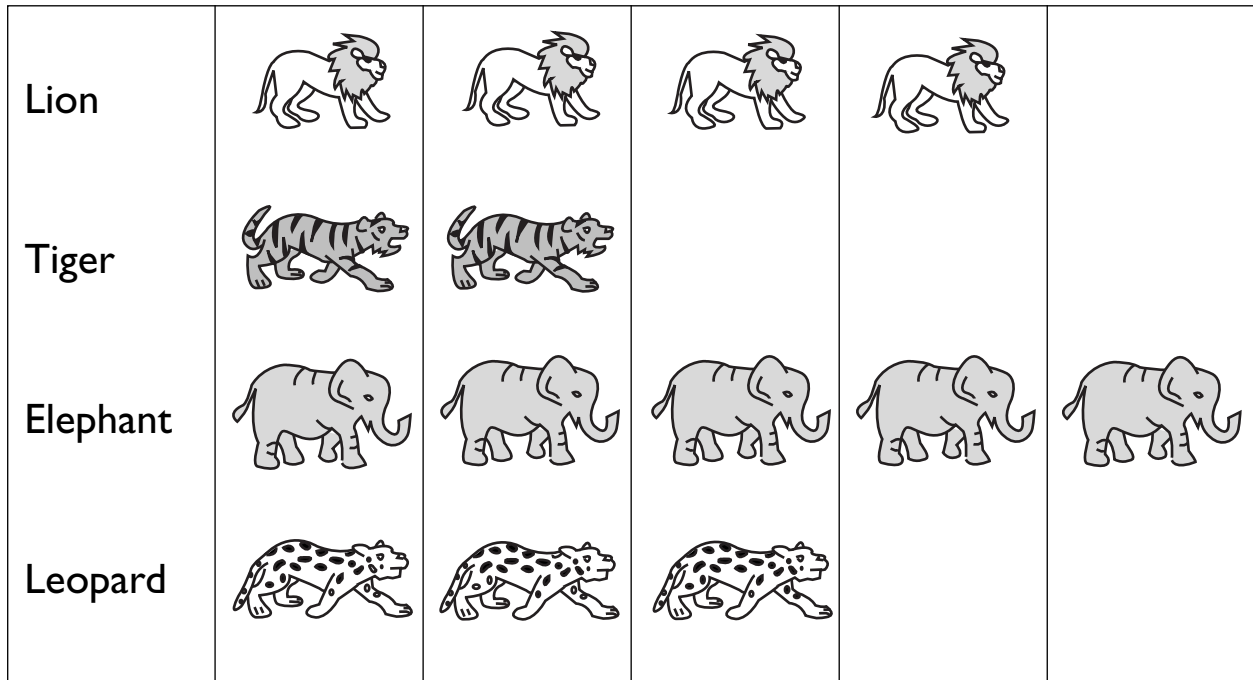
Solution:

$$30 + \square = 34$$

Write a sentence that tells how you found your answer.

★ INVESTIGATION I ★

After a trip to the zoo, some students made this pictograph.



Step 1: Write a title for the pictograph.

Step 2: What do you think each animal picture means? Write a sentence about the graph. Then tell a classmate what the graph shows.

Hint: How many pictures are there for each zoo animal?

Solution:
