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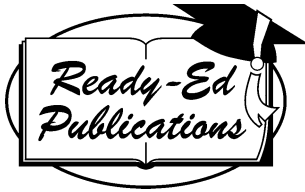
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Magical Math

Book 2

High interest math activities involving art and construction skills to ensure concepts are learnt in a practical and enjoyable way.

Ideal for students working at Primary Level.

For grades 1-3

Written by Mary Serenc and Wendy Harrap. Illustrated by Terry Allen.

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Introduction

Math is like a jigsaw puzzle – little bits and pieces of scattered information – some fit together and make sense, some don't. Often lessons cover a range of topics over the week – a bit of number pattern work on Monday, a bit of measurement on Tuesday, math facts on Wednesday, and so on.

Ideally math is taught in contextual chunks rather than little bits and is integrated with other subject areas to help children see its value and purpose in everyday life, that is, to see how the pieces fit together.

The activities in this book have been designed with this in mind.

The activities also provide a new version of the 3 R's:

REVISION: Revise the basic concepts.

REAL-LIFE: Relate to children's own experiences.

RADICAL : Fun activities and themes, games and new ideas.

The tasks in the book fit into the concept areas of Number, Measurement, Space, Chance and Data and Problem Solving.

Teaching Notes

The activity sheets in this book are accompanied by introductory teaching notes which will provide teachers with the information necessary to conduct a successful lesson.

Also, a number of **Additional Activities** pages have been included. These provide a range of stimulating ideas and activities which are unaccompanied by a worksheet. In most cases teachers can easily produce their own materials, based on the information provided. Some of the **Additional Activities** are intended to be used for blackboard activity sessions or in oral learning situations. Note that information for the Additional Activities is enclosed in a box for easy identification.

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Teaching Notes

The following notes will give teachers ideas for the use of the relevant page as well as background information to use in other lessons on the class timetable.

Activity Sheet 1: Add and Go

Materials

Add and Go Activity Sheet 1; blackboard (draw up a grid as on sheet); pencils, colored pencils; dice.

Teaching Points

- * Distribute one sheet per child.
- * Select a picture, e.g. train.
- * Teacher throws the die (you may wish to use two dice for older children).
- * Teacher calls out a shape, e.g. star; and the number on the die, e.g. 3 (or for older children the sum of two numbers). All children write the numeral 3 in the space marked with a star.
- * Continue to throw the die calling a shape and number, until the four spaces marked with shapes are filled. Demonstrate on the blackboard also.
- * Children then add across and down the grid. This activity is self-correcting as the corner answer should be true for both sums (across and down).

Variations

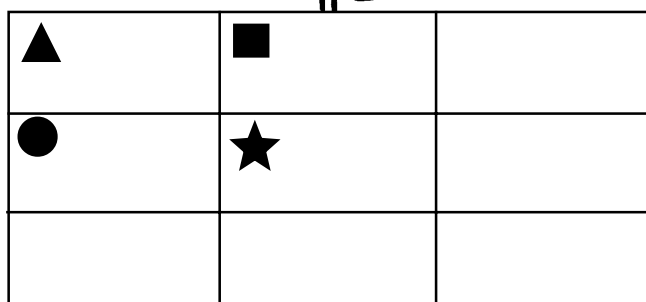
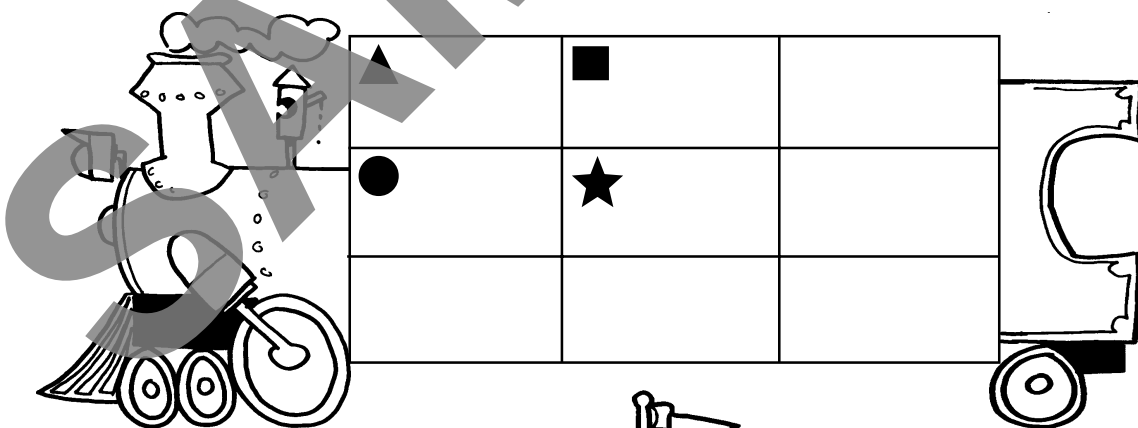
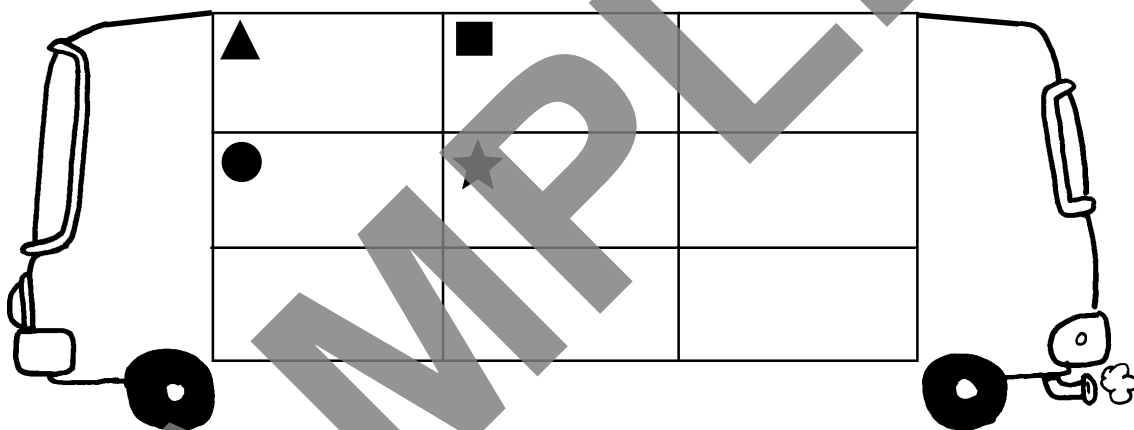
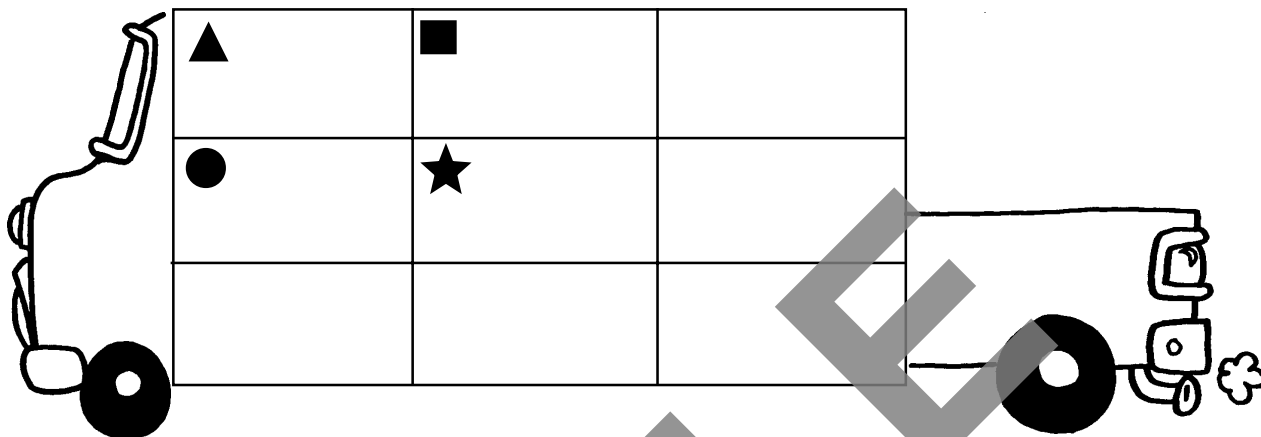
1. For older children use the sum of two dice rather than one.
2. Children work in pairs or groups rather than as a whole class (lots of dice needed though).
3. Children can draw up their own grids (as for noughts and crosses) in their exercise books.
4. Extend the grids to 12 squares, e.g.

3	2	4	
1	6	5	

Name: _____

Activity Sheet 1: Add and Go

- Write the number in the correct space when your teacher calls it out.



Related Standard: Mentally consolidates addition facts for whole numbers up to 6.

Additional Activities

WHAT'S IT WORTH?

Materials

Blackboard; paper; pencils.

Teaching Points

1. Write the following money code on the blackboard:

\$1 A F K P U Z

\$2 B G L Q V

\$3 C H M R W

\$4 D I N S X

\$5 E J O T Y

2. Each letter has a money value. Add the letter values together to find the money values of words, e.g. C A T is $\$3 + \$1 + \$5 = \9 .

3. Children find the value of their names, their friends' names, names of animals, etc.

4. Who can find the most expensive word?

Variation

Assign each letter a different value, e.g. A is \$1, B is \$2, C is \$3 ... Z is \$26.

Activity Sheets 2 and 3: Space Satellites

Materials

Blackboard; Space Satellites Activity sheets 2 and 3; pencils.

Teaching Points

Children arrange the numbers in each of the "satellites" so that they add up to the given number. Demonstrate an example on the board first.

Answers to Activity Sheets 2 and 3

1. $\begin{array}{c} 4 \\ 5 \ 3 \ 6 \\ 7 \end{array}$ 2. $\begin{array}{c} 6 \\ 4 \ 2 \ 5 \\ 3 \end{array}$ 3. $\begin{array}{c} 5 \\ 6 \ 4 \ 7 \\ 8 \end{array}$ 4. $\begin{array}{c} 6 \\ 7 \ 5 \ 8 \\ 9 \end{array}$ 5. $\begin{array}{c} 4 \ 10 \\ 9 \ 3 \ 7 \\ 8 \ 6 \\ 5 \ 11 \end{array}$
1. $\begin{array}{c} 5 \ 9 \\ 4 \ 8 \\ 3 \ 1 \ 7 \\ 2 \ 6 \end{array}$ 2. $\begin{array}{c} 8 \\ 7 \ 6 \ 10 \\ 9 \end{array}$ 3. $\begin{array}{c} 3 \\ 2 \ 1 \ 5 \\ 4 \end{array}$ 4. $\begin{array}{c} 6 \ 2 \ 4 \\ 1 \ 3 \\ 5 \end{array}$ 5. $\begin{array}{c} 4 \ 9 \ 2 \\ 3 \ 5 \ 7 \\ 8 \ 1 \ 6 \end{array}$