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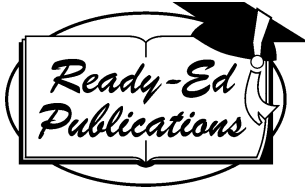
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# Magical Math

## Book 1

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 and Space.

## 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 Sheets 1, 2, 3 and 4

### Activity Sheet 1: Dog and Bone

#### Materials

Dog and Bone Activity Sheet 1; colored pencils; scissors; glue.

#### Teaching Points

Discuss size of objects using terms such as big, bigger, biggest and small, smaller, smallest. Children cut and glue to match the dogs and bones to kennels.

#### Extension

1. Discussion – Discuss various breeds of dogs, their characteristics and how to look after them, for example

##### *Dalmatians*

- They are friendly and well-mannered but need lots of time and attention or they become destructive.
- Their coats are mostly white with round spots in black or brown.
- They make good guard dogs or search and rescue dogs.
- They are prone to sunburn because of their white coloring.

##### *Labradors*

- They are intelligent dogs, often used as guide dogs for deaf and blind people.
- They are very loveable in a family situation but need lots of exercise to keep their weight down.
- They also make good guard dogs.
- They are very trustworthy.

2. Puppy Math - Draw 3 puppies on the blackboard. Ask questions such as:

- How many dogs?
- How many legs?
- How many ears?
- How many waggy tails?
- How many eyes?

Pose problems such as: I see eight little legs running by with four ears flapping. How many dogs is that? Draw them.

## Activity Sheets 2, 3 and 4: Dot-to-Dot activities

#### Materials

Dot-to-Dot Activity Sheets 2, 3 and 4; colored pencils.

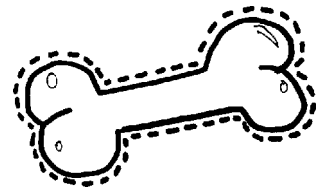
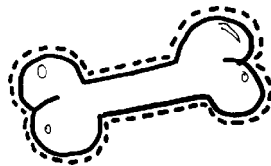
#### Teaching Points

Practise counting in 1s, 2s, 5s and 10s. Follow up with dot-to-dot sheets.

Name: \_\_\_\_\_

## Activity Sheet 1: Dog and Bone

★ Cut out each dog and bone. Match the dogs with their kennels and glue them in. Glue their matching bones in front of the kennels.



Related Standard: Matches, compares and arranges objects according to size and shape.

Name: \_\_\_\_\_

## Activity Sheet 2: Dot-to-Dot

☆ Join the dots.



Related Standard: Follows an ordered sequence of whole numbers.