Milestone Maths by Kathy Gonzalez

Student Book Level B2



Introduction

Welcome to the second book in Milestone Maths level B. To get the most from this book, you should consult Teacher Book B before your child commences each milestone. This book contains 40 lessons and is intended to be used by an average student in term two of year 1 in an Australian school year. To complete the book in one term your child should do one lesson per day, four days per week. If your child has special needs, please see the teacher book for advice on how to structure and pace lessons.

Lessons marked with a book icon have special instructions or extra teaching tips in the teacher manual.

There are many games and additional practice activities suggested in the teacher book. These are optional but they will make learning more fun, and often easier, for many children. When a concept is particularly difficult for a child to grasp, I find a game will often provide the breakthrough required to unlock the child's understanding.

If you have any questions whatsoever about any aspect of this course's implementation, or if you need help understanding any maths related concept, please do not hesitate to contact the author at author@milestonemaths.com.au

I hope you continue to enjoy learning and teaching maths one Milestone at a time.



Hi! Emmy Echinda is back and ready for another term of Milestone Maths.

We've got lots more fun things to learn about the numbers 0 to 10 this term. We'll also learn about taking away stuff as well as finding one half of something. And finally we're going to learn to count to 20 and write the numbers 11 to 20.

So put your thinking cap on and let's go do some maths!

The Concept of Subtraction



In the last milestone we looked at how to solve addition equations where one of the parts are missing. This will come in very handy as we learn about subtraction so let's remind ourselves how this works.



We can use our Sumstix to fill in the missing number.



Fill in the missing numbers:

 $3 + _ = 7 \qquad 6 + _ = 10 \qquad _ + 0 = 6$ $2 + _ = 9 \qquad _ + 8 = 10 \qquad _ + 3 = 5$ $_ + 1 = 10 \qquad 4 + _ = 7 \qquad 5 + _ = 10$ $4 + _ = 8 \qquad _ + 5 = 8 \qquad _ + 3 = 6$

It is also useful for us to remember that we can flip equations around so that one number bond can represent two addition equations. Write the two addition equations represented by the number bond:



Review and Practice

Fill in the missing numbers:



This icon marks drills. Timing is optional. The suggested time limit is one minute.

| 2 + 3 = | 3 + = | 2 + 2 = |
|---------|---------|---------|
| + | 3 + 2 = | + 2 = |
| 2 + = | + = | 4 + = |

Problems in real life don't always come in nice organised sets. You might have to add one minute and then subtract (take away) the next. Try solving these mixed up problems. You will have to watch the signs closely.



The shop manager put ten bananas in the "fruit for kids box" at the shop. When he came to check the box later in the day, he found that six of them had been taken. How many were left?



bananas

There were five glasses on the bench. Three had juice in them and the rest had water in them. How many glasses had water in them?





Review and Practice



We'll use Sumstix and number bonds to help us learn all the sums and take aways that involve a total of five. Build the following pattern (which we will call a Sumstix sandwich) and then (if you like) colour the picture to match:



Since the bottom half of the sandwich is just a flip of the top half, we'll toss it and work with only the top half. Each row of the pattern represents a number bond but the important thing for us to learn are the numbers in the bond so we are going to practise the following trios. Read them a few times to someone.



Fill in the missing number in the following trios:

| 5:0: | 5:2: | 5::5 |
|------|------|------|
| 5:1: | : :Ч | 5:1: |
| 5::3 | 5::5 | 5::3 |
| 5::4 | | 5:0: |





We've now seen all the tools we can use to help us learn and remember the number trios for five. We will spend the rest of this milestone practising until (hopefully) we know them all off by heart. Since they will all be practice and revision, most of the remaining exercises this milestone will not have any instructions.

Complete each trio before filling in the number bond and writing the equations represented by the bond.







Review and Practice





Now that we've learned to count to twenty, let's try to count backwards!

Read the numbers below as many times as you think you need to, then try to count backwards from 20 without looking.

| 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | | |
|----|----|----|----|----|----|----|----|----|---|---|
| 10 | ٩ | 8 | 7 | 6 | 5 | 4 | 3 | 2 | I | 0 |

Write a countdown starting at 20.



10



Write the numbers 10-20 in the correct places under the number line.



Write the number represented by each train.

| | 48 | | |
|--|----|--|--|

Review and Practice



Count back from the number shown.

| 20 | ll | 4 |
|---------|---------|---------|
| 7 | 12 | 18 |
| | | |
| 2 + 3 = | 3 + = | 2 + = |
| 3 + 2 = | + () = | 4 + = |
| + 3 = | + = | 5 + 0 = |
| + 4 = | 2 + 2 = | + 2 = |



Checkpoint 10

Circle the picture which shows one half.





Colour one half of each of the shapes below.





Write one or one half next to each shape to tell how much is shaded.



