

math

# MAMMOTH

## Grade 1-B Worktext South African Version

**A**ddition and subtraction  
facts within 0 - 10

**C**lock and  
calendar

**S**hapes and  
measuring

**A**dding and  
subtracting  
within 0 - 100

**C**ounting coins



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## Foreword

*Math Mammoth South African Version Grade 1-A* and *Grade 1-B* worktexts comprise a complete maths curriculum for the first grade mathematics studies.

Math Mammoth South African version has been **customised to South Africa** in the following manners:

- The names used are South African names (instead of Jack and Jill, there are Ansie and Mampho).
- The currency used in word problems is rand. The money chapter teaches both rand and cents.
- The material is all metric. In other words, the US customary measuring units are not used.
- Spelling is British English instead of American English.
- Paper size is A4.

Please note that the curriculum is not following the South African official syllabus for 1st grade maths. Instead, it is a copy of the US version of Math Mammoth Grade 1, aligned to the US Common Core Standards. This decision was made because of the great amount of work that would be involved in writing new lessons and reorganising old ones to match all the standards in the South African syllabus. For the most part, Math Mammoth is exceeding South African standards.

The four main areas of study for first grade are:

1. The concepts of addition and subtraction, and strategies for addition and subtraction facts (chapters 1-2 and chapter 4);
2. Developing understanding of whole number relationships and place value up to 100 (chapter 3 and chapter 7);
3. Developing understanding of measuring lengths as iterating length units (chapter 6); and
4. Reasoning about attributes of geometric shapes, such as the number of sides and the number of corners, and composing and decomposing geometric shapes (chapter 6).

Additional topics we study in the first grade are the clock to the half hour (chapter 5) and counting coins (chapter 8).

This book, 1-B, covers strategies for addition and subtraction facts (chapters 4), using the clock and calendar (chapter 5), shapes and measuring (chapter 6), adding and subtracting with two-digit numbers and graphs (chapter 7), and counting coins (chapter 8).

When you use these two books as your only or main mathematics curriculum, they are like a “framework,” but you still have a lot of liberty in planning your child's studies. While addition and subtraction topics are best studied in the order they are presented, feel free to go through the geometry, clock, and money sections in a different order. This might even be advisable if your child is “stuck” on some concept, or is getting bored. Given more time, the concept he/she was stuck on can become clear after a break.

Math Mammoth aims to concentrate on a few major topics at a time, and study them in depth and includes a lot of revision problems from past topics. This is totally the opposite to the continually spiralling step-by-step curricula, in which each lesson typically is about a different topic from the previous or next lesson.

This does not mean that your child would not need an occasional revision. However, when each major topic is presented in its own chapter, this gives you more freedom to plan the course of study *and* choose the revision times yourself. In fact, I totally encourage you to plan your mathematics school year as a set of certain topics, instead of a certain book or certain pages from a book.

For revision, the download version includes an html page called *Make\_extra\_worksheets\_grade1.htm* that you can use to make additional worksheets for computation or for number charts. You can also reprint some previously studied pages. The third chapter forms the extra worksheets file, which practises addition and subtraction facts, contains a lot of pages with problems, so you might choose to “save” some of them for later revision.

*I wish you success in your maths teaching!*

*Maria Miller, the author*

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# Chapter 4: Addition and Subtraction Facts

## Introduction

This chapter provides lots of practice for learning and memorising the basic addition and subtraction facts within 0-10. The Common Core Standards call for students to demonstrate fluency for addition and subtraction within 10 in the first grade, and this is what this chapter is for.

Since this chapter is somewhat repetitive, consider studying this chapter simultaneously with some other chapter, such as clock or shapes and measuring. For example, you could study a little shapes and measuring and a little from this chapter each day, or study the two different chapters on alternate days. This is not mandatory; it is just a suggestion to “mix things up” in a somewhat spiral fashion to avoid students getting bored with all the repetition.

The lessons titled Addition and Subtraction Facts With... aim at memorisation of the basic facts within 0-10. We approach it from the concept of “fact families,” which makes the process to be logical and structured. These lessons have a lot of repetition and practice for both subtraction and addition facts.

Some students may not need all of the practice. Use your judgment and skip some pages in this section if you feel it is necessary. You can also “save” some of the pages to be completed later, as a revision.

With this book, you can also use maths games or flashcards to reinforce these facts. You will find a list of some free online games below.

While your child does not absolutely have to learn these facts by heart while studying this chapter, it is advisable to learn them fairly well now. Mathematics builds upon previously learned concepts and facts, and learning addition and subtraction facts is essential for later study, such as when students add  $24 + 2$  (in chapter 7 of this curriculum). However, if the child does not memorise these facts yet, do not worry. Go on with the curriculum, but keep practising the facts with games, worksheets, drills, etc., on the side during the rest of first grade.

Besides practising the facts with the help of fact families, students also solve word problems, fill in number patterns, get used to a symbol, such as  $\triangle$ , for the unknown number, compare expressions (such as  $5 - 2 < 2 + 5$ ), and subtract many numbers.

### The Lessons

	page	span
Addition and Subtraction Facts with 4 and 5 .....	11	2 pages
Addition and Subtraction Facts with 6 .....	13	3 pages
Addition and Subtraction Facts with 7 .....	16	2 pages
Addition and Subtraction Facts with 8 .....	18	4 pages
Addition and Subtraction Facts with 9 .....	22	3 pages
Addition and Subtraction Facts with 10 .....	25	4 pages
Subtracting Many Numbers .....	29	2 pages
Revision - Facts with 6, 7, and 8 .....	31	2 pages
Revision - Facts with 9 and 10 .....	33	3 pages

# Games for Addition and Subtraction Facts

## 10 Out (or 5 Out or 6 Out etc.)

**You need:** lots of number cards with numbers 1-10, such as regular playing cards without the picture cards, etc.

**Rules:** Give seven cards to each player. Place the rest in a stack in the middle, face down.

During his turn, each player *may* first take one card from the deck. Then, each player *may* ask for one card from the player on their right (like in 'Go Fish'), and the person has to give the player the card if the person has it. Then the player may discard any two cards in his hand that add up to 10, or the "10" card itself.

The winner is the player who is the first to discard all cards from his hand.

### Adaptations:

- \* Give more than seven cards.
- \* Give fewer cards if there are very many players or the players are young.
- \* Allow players to discard three cards that add up to 10.
- \* Instead of ten, players discard cards that add up to 9, 8, 11, or some other number.  
Use the picture cards for 11, 12, and 13.

## Some Went Hiding

**You need:** An amount of small objects that is equal to the sum you are studying. For example, to study the sums with 12, you need 12 marbles, or 12 blocks, etc.

**Rules:** The first player shows the objects, and quickly hides SOME behind his/her back without showing how many. Then he/she shows the remaining objects to the next player, who has to tell how many went hiding. If the player gives the right answer, it is then his/her turn to hide some and ask the next player to answer. If he gives the wrong answer, he misses his turn. This game appeals best to young students.

### Adaptations:

- \* Instead of getting a turn, the player may gain points or other rewards for the right answer.

## Addition (or Subtraction) Battle

**You need:** A standard deck of playing cards from which you remove the picture cards, and perhaps also some of the other higher number cards such as tens, nines, and eights. Alternatively, a set of dominoes works well for students who do not yet know their numbers beyond 12.

**Rules:** In each round, each player is given two cards face up, and has to calculate the sum (subtract/add). The player with the highest sum gets all the cards from the other players. After enough rounds so that all of the cards are used, the player with the most cards wins.

If there is a tie, such as two players both having the sum of 11, those players get an additional two cards and "battle" with those to resolve the tie.

### Adaptations:

- \* This game is easily adapted for subtraction, and fractions.  
You can also use dominoes instead of two playing cards.



# Helpful Resources on the Internet

Use these free online resources to supplement the “bookwork” as you see fit.

**Disclaimer:** These links were valid at the time of the writing of this book, and to the best of our knowledge we believe these websites to have what is described. However, we cannot guarantee that the links have not changed. Parental supervision is recommended.

## Fun 4 The Brain

Practise your basic facts with these simple games that appeal to children.

<http://www.fun4thebrain.com/addition.html>

<http://www.fun4thebrain.com/subtraction.html>

## Mental Maths Practice

Online practice of sets of 10 addition and subtraction questions; timed.

<http://www.teachingtreasures.com.au/maths/mental-maths/yr1-maths-pg1.htm>

## Maths Facts Practice at playKidsgames.com

Timed practice with various skill levels.

<http://www.playkidsgames.com/games/mathfact/default.htm>

## Number Bond Machines

Practise which two numbers add up to a given number.

<http://www.amblesideprimary.com/ambleweb/mentalmaths/numberbond.html>

## Online Subtraction Flash Cards

<http://www.thegreatmartinicompany.com/WebMozilla/subtractionm.html> and

<http://www.thegreatmartinicompany.com/WebMozilla/subtractionmfill.html>

## Addition Eaters and Subtraction Eaters

Eat the addition (or subtraction) problems if the sum (difference) is a given number.

<http://www.hoodamath.com/games/addition.php>

<http://www.hoodamath.com/games/subtraction.php>

## Sum Stacker

Drag dice from stack to stack until the sums of each stack equal the sums given.

<http://www.carstensstudios.com/mathdoodles/sumsstacker.html>

## An addition/subtraction card game

This card game is an easy, cheap and fun alternative to drill.

<http://diosadotada.homeschooljournal.net/2008/05/15/easy-cheap-alternative-to-drill-kill>

## Fun maths card game

A simple and fun card game for addition/subtraction.

<http://blog.aussiepumpkinpatch.com/2010/03/meal-ticket-math.html>

## Face off! and other card and board games

Students place markers on the numbers 2-12, toss two dice, find the sum and remove a marker from that number. The page has other addition games also.

<http://www.mathwire.com/games/addsubgames.html>

Sample worksheet from

[www.mathmammoth.com](http://www.mathmammoth.com)



### **Number Line Bounce**

Arrange the given bounce arrows on a number line using addition and subtraction until you reach the target number. Since it uses several operations, it is *challenging* for first graders, but give it a try.

[http://nlvm.usu.edu/en/nav/frames\\_asid\\_107\\_g\\_1\\_t\\_1.html](http://nlvm.usu.edu/en/nav/frames_asid_107_g_1_t_1.html)




### **Tux Math**


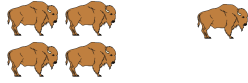

A versatile arcade game for maths facts with many options. Includes all operations. You need to shoot falling comets that can damage penguins' igloos. **Price:** Free.

<http://sourceforge.net/projects/tuxmath>

See also my review: <http://homeschoolmath.blogspot.com/2011/05/tux-math.html>

## Addition and Subtraction Facts with 4 and 5

Facts with 4		$4 + 0 = 4$ $0 + 4 = 4$	$4 - 4 = 0$ $4 - 0 = 4$
		$1 + 3 = 4$ $3 + 1 = 4$	$4 - 3 = 1$ $4 - 1 = 3$
		$2 + 2 = 4$	$4 - 2 = 2$

Facts with 5		$5 + 0 = 5$ $\underline{\quad} + \underline{\quad} = 5$	$5 - 5 = 0$ $5 - \underline{\quad} = \underline{\quad}$
		$4 + 1 = 5$ $1 + 4 = 5$	$5 - 4 = \underline{\quad}$ $5 - \underline{\quad} = \underline{\quad}$
		$3 + 2 = 5$ $\underline{\quad} + \underline{\quad} = 5$	$5 - 3 = \underline{\quad}$ $5 - \underline{\quad} = \underline{\quad}$

1. Find the missing numbers.

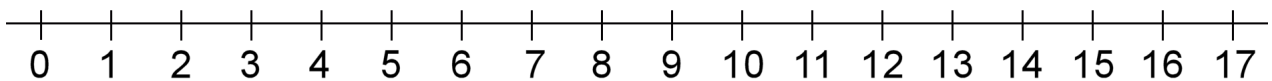
a.	b.	c.	d.
$3 + \underline{\quad} = 4$	$2 + \underline{\quad} = 5$	$5 - 0 = \underline{\quad}$	$4 - 0 = \underline{\quad}$
$1 + \underline{\quad} = 4$	$1 + \underline{\quad} = 5$	$5 - 4 = \underline{\quad}$	$4 - 3 = \underline{\quad}$
$1 + \underline{\quad} = 5$	$4 + \underline{\quad} = 5$	$5 - 2 = \underline{\quad}$	$5 - 1 = \underline{\quad}$
$2 + \underline{\quad} = 4$	$3 + \underline{\quad} = 5$	$4 - 1 = \underline{\quad}$	$4 - 2 = \underline{\quad}$

2. Colour in the square:

- yellow if the answer is 0.
- red if the answer is 1,
- blue if the answer is 2,
- green if the answer is 3,
- purple if the answer is 4,
- orange if the answer is 5.

$5 - 4$	$2 + 3$	$4 - 4$	$1 + 2$	$4 - 2$	$1 + 3$
$2 + 2$	$3 - 2$	$5 - 0$	$0 + 0$	$5 - 2$	$1 + 1$
$0 + 2$	$5 - 1$	$0 + 1$	$1 + 4$	$0 - 0$	$4 - 1$

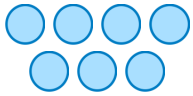
3. Continue the patterns as long as you can!



<b>a.</b>	<b>b.</b>	<b>c.</b>
$17 - 0 = \underline{\quad}$	$10 + \underline{\quad} = 10$	$5 - 2 = \underline{\quad}$
$17 - 1 = \underline{\quad}$	$10 + \underline{\quad} = 11$	$6 - 2 = \underline{\quad}$
$17 - 2 = \underline{\quad}$	$10 + \underline{\quad} = 12$	$7 - 2 = \underline{\quad}$
$17 - \underline{\quad} = \underline{\quad}$	$10 + \underline{\quad} = \underline{\quad}$	$\underline{\quad} - 2 = \underline{\quad}$
$17 - \underline{\quad} = \underline{\quad}$	$\underline{\quad} + \underline{\quad} = \underline{\quad}$	$\underline{\quad} - \underline{\quad} = \underline{\quad}$
$\underline{\quad} - \underline{\quad} = \underline{\quad}$	$\underline{\quad} + \underline{\quad} = \underline{\quad}$	$\underline{\quad} - \underline{\quad} = \underline{\quad}$
$\underline{\quad} - \underline{\quad} = \underline{\quad}$	$\underline{\quad} + \underline{\quad} = \underline{\quad}$	$\underline{\quad} - \underline{\quad} = \underline{\quad}$

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## Subtracting Many Numbers

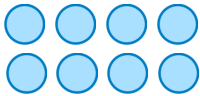


$$7 - 1 - 2 = ?$$

You have 7 circles. First you take away 1 circle, and then you take away 2 more circles. You will have 4 circles left.  $7 - 1 - 2 = 4$ .

1. Subtract two times, taking away circles. You can cover or cross out the circles to help.

a.

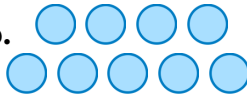


$$8 - 2 - 3 = \underline{\quad}$$

$$8 - 5 - 2 = \underline{\quad}$$

$$8 - 1 - 3 = \underline{\quad}$$

b.

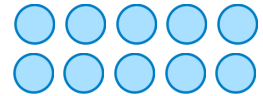


$$9 - 3 - 1 = \underline{\quad}$$

$$9 - 4 - 2 = \underline{\quad}$$

$$9 - 2 - 5 = \underline{\quad}$$

c.



$$10 - 5 - 3 = \underline{\quad}$$

$$10 - 6 - 2 = \underline{\quad}$$

$$10 - 1 - 4 = \underline{\quad}$$

2. Solve. You can draw pictures to help.

a. Mary had ten cookies. She gave two to her brother, and two to her sister.  
How many does she have left?

b. Seven birds were in the tree. Three flew away.  
After a while, one more flew away.  
How many birds are left in the tree?

c. Eight cars were in the parking lot. Then, three cars left. After that, two more cars left.  
How many cars are there now?

d. John had R10. Then, he bought two oranges for R4 each and an apple for R2.  
How many rand does John have now?

You can subtract two numbers this way:

$$\begin{array}{r} 8 - 2 - 3 \\ \quad \backslash \quad / \\ \quad \mathbf{6} - 3 = 3 \end{array}$$

First take away 2. That leaves 6.  
Then, from 6, subtract 3. That leaves 3.

OR you can subtract them this way:

$$\begin{array}{r} 8 - 2 - 3 \\ \quad \backslash \quad / \\ 8 - \mathbf{5} = 3 \end{array}$$

Check how much you need to subtract or take away *in total*. You need to subtract 2 and 3, or a total of 5. So, subtract  $8 - 5 = 3$ .

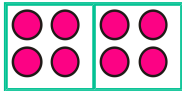
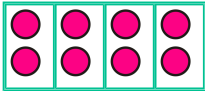
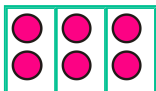
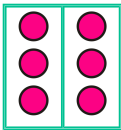
3. Subtract using either way.

a.	b.	c.
$7 - 2 - 3 = \underline{\quad}$	$9 - 7 - 1 = \underline{\quad}$	$7 - 5 - 1 = \underline{\quad}$
$9 - 2 - 6 = \underline{\quad}$	$6 - 2 - 2 = \underline{\quad}$	$10 - 6 - 1 = \underline{\quad}$

4. Solve. Compare the two problems and their results.

a.	b.	c.
$10 - 3 - 2 = \underline{\quad}$	$7 - 3 - 3 = \underline{\quad}$	$9 - 6 - 1 = \underline{\quad}$
$10 - 3 - 3 = \underline{\quad}$	$7 - 4 - 3 = \underline{\quad}$	$8 - 6 - 1 = \underline{\quad}$

5. Match the subtraction problems to the right pictures.

	a. $8 - 2 - 2 - 2 - 2 = 0$	
	b. $8 - 4 - 4 = 0$	
	c. $6 - 2 - 2 - 2 = 0$	
	d. $6 - 3 - 3 = 0$	

### Puzzle Corner

Here are some problems with four numbers!

$9 - 3 - 2 - 1 = \underline{\quad}$

$10 - 1 - 2 - 1 = \underline{\quad}$

$8 - 4 - 1 - 2 = \underline{\quad}$

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# Chapter 5: Clock

## Introduction

The fifth chapter covers reading the clock (whole hours and half hours) and some basics of time and calendar.

### Reading the clock - whole and half hours

The main goal of this chapter is to learn the whole and half hours on the clock.

In the first lesson we use an analogue clock without the minute hand. The child learns whole and half hours with this special clock, and also practises what time it is one hour or a half-hour later than a given time.

The next lesson talks about the minutes. While it does have some clock reading to the nearest five minutes, the main focus in this lesson is to learn that one hour is 60 minutes, a half-hour is 30 minutes, and how the phrases “o'clock” and “half past” relate to the hours and minutes.

For example, the child is to learn that half past eight is written 8:30, and that the “30” part means minutes, and that half an hour IS 30 minutes.

The book has a few exercises about reading the clock to the five-minute intervals; however this can be skipped. The second grade book has much more practice on reading the clock to the nearest five minutes.

I have included one lesson about time order. The topics in this lesson are hopefully already familiar to the student. The next lesson deals with morning and afternoon hours: AM and PM. The goal is to understand that at midnight, the clock starts at 12 hours, and goes through all the hours from 1 to 12, and then it is noon, and after that the hours again go from 1 to 12 until it is midnight again.

We will also briefly look at the calendar and practise the names of the months.

Reading the clock is a skill that can and should be practised in everyday situations from now on so that children can learn by experience and not just by filling in maths book pages.

### The Lessons

	page	span
Whole and Half Hours .....	39	4 pages
The Minutes and Half Hours.....	43	4 pages
Time Order .....	47	2 pages
AM and PM .....	49	3 pages
The 2013 Calendar .....	52	2 pages
Revision - Half Hours .....	54	1 page

# Helpful Resources on the Internet

Use these free online resources to supplement the “bookwork” as you see fit.

**Disclaimer:** These links were valid at the time of the writing of this book, and to the best of our knowledge we believe these websites to have what is described. However, we cannot guarantee that the links have not changed. Parental supervision is recommended.

## Flashcard Clock

Read the analogue and type in the time in digital. Very clear clock and good fast response!

[http://www.teachingtreasures.com.au/maths/FlashcardClock/flashcard\\_clock.htm](http://www.teachingtreasures.com.au/maths/FlashcardClock/flashcard_clock.htm)

## Teaching Time

Analogue/digital clock games and worksheets. Also an interactive “class clock” to demonstrate time.

<http://www.teachingtime.co.uk/>

## A Matter of Time

Lesson plans for telling time, interactive activities, and some materials to print.

<http://www.fi.edu/time/Journey/JustInTime/contents.html>

## Clockwise

Plug in a time, and the clock runs till it reaches it, or the clock runs to a time and you type it in.

<http://www.shodor.org/interactivate/activities/clock2/index.html>

## Clock

(The words “Evaluation version” are across the screen). Use the buttons to advance the clock in 5, 10, 15, 30 minute increments or drag the hands. Shows digital time also. For illustrations only; it does not have any quiz or questions.

<http://www.interactive-resources.co.uk/mathspack1/clock/clock.html>

## The Right Time

A couple of interactive exercises about reading the clock.

<http://www.pitara.com/activities/math/time/time.asp?QNum=3>

## What Time Is It?

Look at the analogue clock and pick the digital clock that shows the same time.

<http://www.primarygames.com/time/start.htm>

## Time-for-Time

Resource site to learn about time: worksheets, games, quizzes, time zones.

<http://www.time-for-time.com/default.htm>

## That Quiz: Time

Online quizzes for all time-related topics: reading the clock, time passed, adding/subtracting with time, conversion of time units, and time zones practice. The quizzes have many levels, can be timed or not, and include lots of options for customisation. Easy to use and set up.

[www.thatquiz.org/tq-g/math/time](http://www.thatquiz.org/tq-g/math/time)

## On Time

Set the clock's hands to the given time. Four different levels.

[http://www.sheppardsoftware.com/mathgames/earlymath/on\\_time\\_game1.htm](http://www.sheppardsoftware.com/mathgames/earlymath/on_time_game1.htm)

Sample worksheet from  
[www.mathmammoth.com](http://www.mathmammoth.com)

**Clock Shoot**

A game where you need to click on the clock with the matching time (analogue/digital). Three different levels: whole hours, half hours, or quarter hours.

[http://www.sheppardsoftware.com/mathgames/earlymath/clock\\_shoot.htm](http://www.sheppardsoftware.com/mathgames/earlymath/clock_shoot.htm)

**Calendar Song**

This girls sings the months of the year with gestures.

<http://www.youtube.com/watch?v=IwdQegySW-0>

**Calendar Quiz**

Click on the correct date on the calendar to answer questions such as what is the first Monday of this month.

[http://www.softschools.com/math/calendar/activities/calendar\\_game/](http://www.softschools.com/math/calendar/activities/calendar_game/)

**Create Your Own Calendar**

Choose a month and a year, then add your own text to each day, and generate the calendar.

<http://www.janbrett.com/calendar/calendar1.php4>

**Months Game**

Help Tom the Zebra get ready for bed by clicking and dragging the months into the correct order.

<http://www.roythezebra.com/reading-games/high-frequency-words-months.html>

**Days of the Week Game**

Help Tom the Zebra get ready for bed by clicking and dragging the days of the week into the correct order.

<http://www.roythezebra.com/reading-games/high-frequency-words-days.html>

**It's a Date**

An online quiz about dates on a calendar.

<http://www.beaconlearningcenter.com/WebLessons/ItsADate/default.htm>

**12 Months of the Year**

Drag the months into the correct order and help the monkeys get a banana.

[http://www.abcya.com/months\\_of\\_the\\_year.htm](http://www.abcya.com/months_of_the_year.htm)

**Monkey Fun Game**

Practice months of the year and ordinal numbers with this interactive game.

<http://www.eslgamesplus.com/months-and-ordinal-numbers-esl-vocabulary-game-activity-online/>

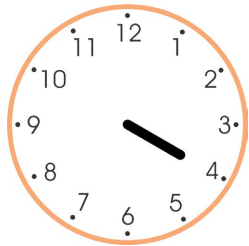
**Memory Game**

For the days of the week.

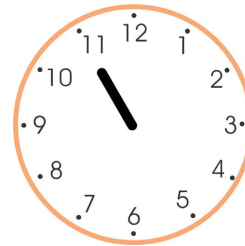
<http://www.eslgamesplus.com/days-of-the-week-esl-vocabulary-game/>

# Whole and Half Hours

In this lesson, the clock only has one hand - the HOUR hand.



The hour hand points to four - it is four o'clock, or "four hours."

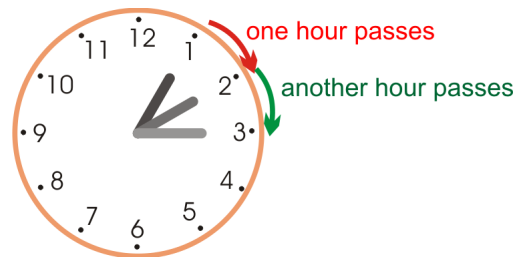


The hour hand points to eleven - it is eleven o'clock, or "eleven hours."

The hour hand slowly moves around the clock face: from 1 to 2 to 3, and so on.

When the hour hand moves from 1 to 2, exactly one hour of time has passed.

The same is true when the hour hand moves from 2 to 3. It takes the hour-hand one hour to do that.



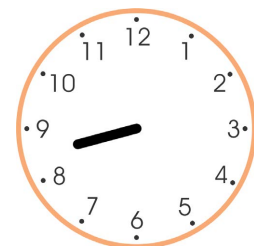
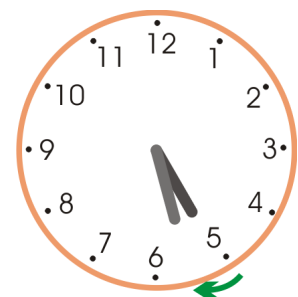
On this clock, the hour hand has first pointed to 5 —it was five o'clock.

Then it has moved **halfway** between 5 and 6. We say it is **half past five**.

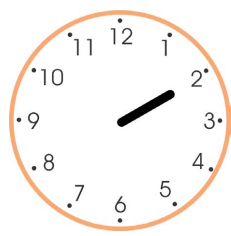
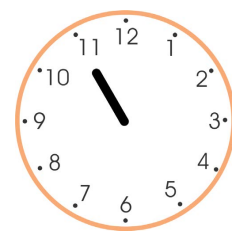
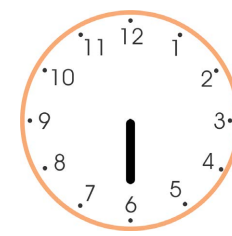
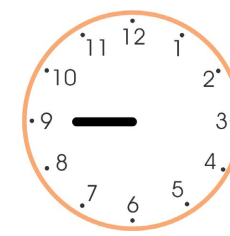
It takes the hour hand one-half hour to move from five to halfway between five and six.

The hour hand has moved past eight o'clock, and is halfway between 8 and 9. We say it is half past eight.

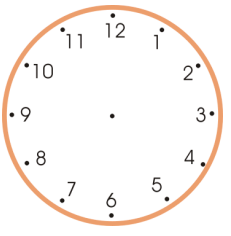
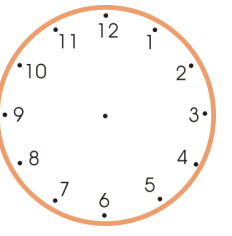
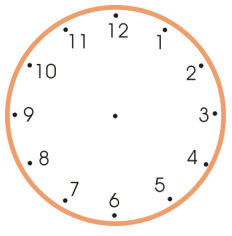
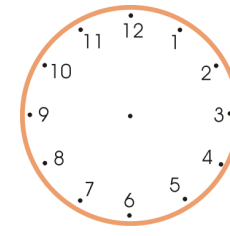
In half an hour it will be nine o'clock.



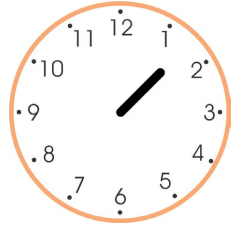
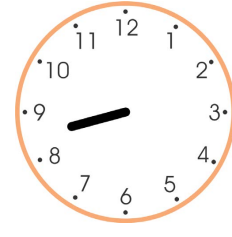
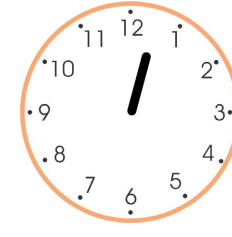
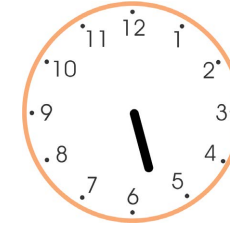
1. Write the time under each clock face.

 <p>a. _____ o'clock</p>	 <p>b. _____ o'clock</p>	 <p>c. _____ o'clock</p>	 <p>d. _____ o'clock</p>
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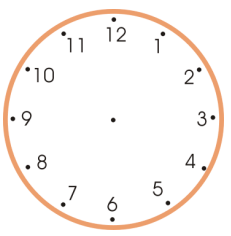
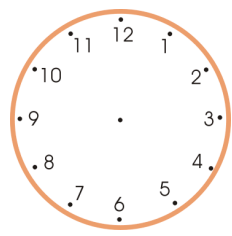
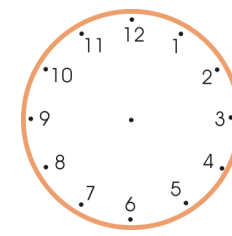
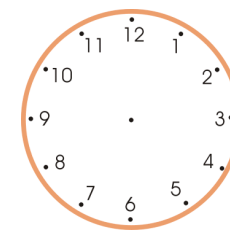
2. Draw the hour hand.

 <p>a. five o'clock</p>	 <p>b. eight o'clock</p>	 <p>c. twelve o'clock</p>	 <p>d. seven o'clock</p>
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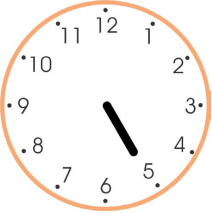
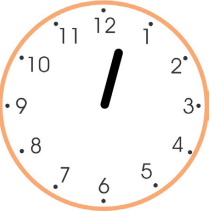
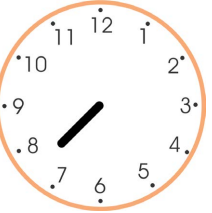
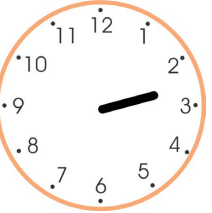
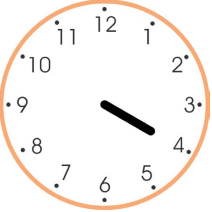
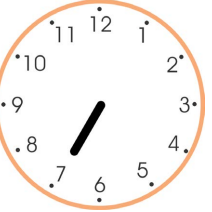
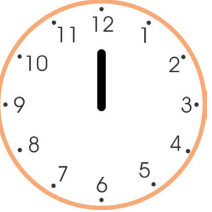
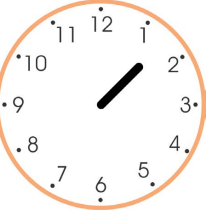
3. Write the time.

 <p>a. half past _____</p>	 <p>b. half past _____</p>	 <p>c. half past _____</p>	 <p>d. half past _____</p>
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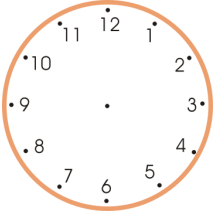
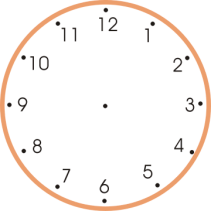
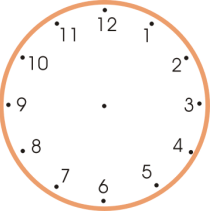
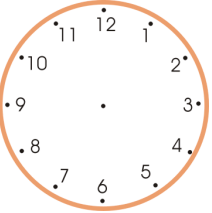
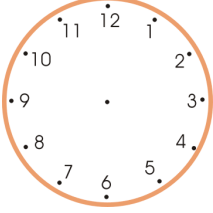
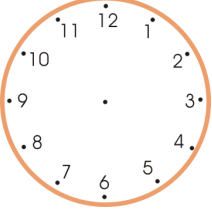
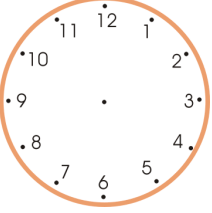
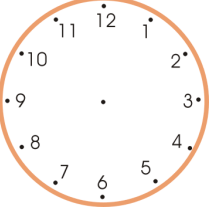
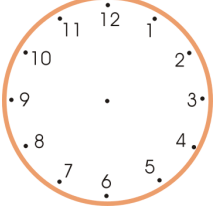
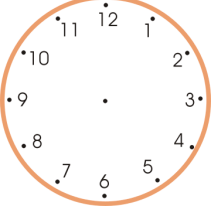
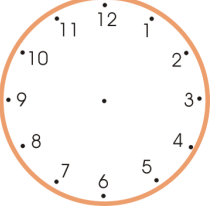
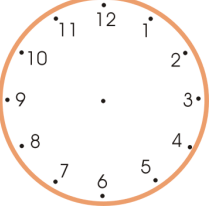
4. Draw the hour hand.

 <p>a. half past six</p>	 <p>b. half past three</p>	 <p>c. half past two</p>	 <p>d. half past four</p>
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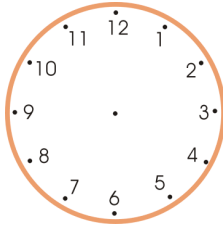
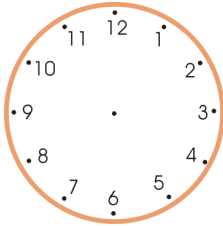
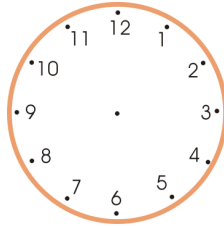
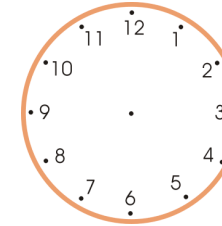
5. Write the time!

<p><b>a.</b></p>  <p>_____</p> <p>_____</p>	<p><b>b.</b></p>  <p>_____</p> <p>_____</p>	<p><b>c.</b></p>  <p>_____</p> <p>_____</p>	<p><b>d.</b></p>  <p>_____</p> <p>_____</p>
<p><b>e.</b></p>  <p>_____</p> <p>_____</p>	<p><b>f.</b></p>  <p>_____</p> <p>_____</p>	<p><b>g.</b></p>  <p>_____</p> <p>_____</p>	<p><b>h.</b></p>  <p>_____</p> <p>_____</p>

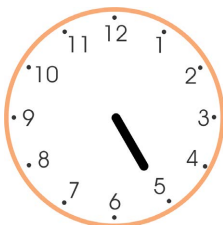
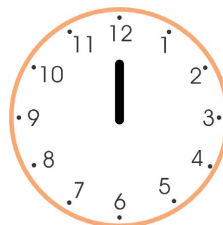
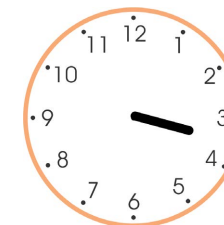
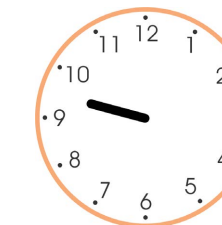
6. Draw the hour hands on the clocks. On the second row, show the time a half-hour later. On the third row, show the time another half-hour later (compared to the second row).

<p>Draw the hour hand.</p>	 <p><b>a. Five o'clock</b></p>	 <p><b>b. One o'clock</b></p>	 <p><b>c. Half-past six</b></p>	 <p><b>d. Half-past three</b></p>
<p>A half-hour later →</p>				
<p>Another half-hour later →</p>				

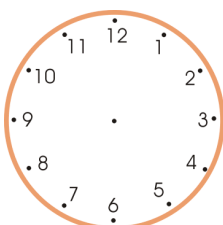
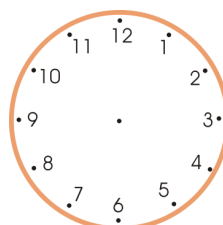
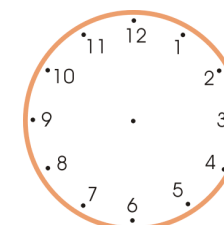
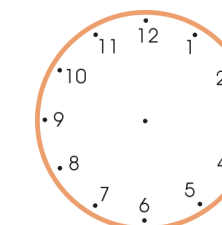
7. Draw the hour hand on the clocks. Then write the time that the clock shows a half-hour later.

1/2 hour later →				
	a. three o'clock	b. eleven o'clock	c. half-past five	d. half-past eleven
	half past _____	half past _____	_____ o'clock	_____ o'clock

8. Write the time that the clock shows. Then write the time an hour later.

An hour later →				
	a. _____ o'clock	b. _____ o'clock	c. half past _____	d. half past _____
	_____	_____	_____	_____

9. Draw the hour hand on the clock face. Write what time it would be an hour later.

An hour later →				
	a. three o'clock	b. eleven o'clock	c. half-past five	d. half-past eleven
	_____	_____	_____	_____



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## Chapter 6: Shapes and Measuring

### Introduction

The sixth chapter of *Math Mammoth Grade 1* covers basic shapes and the basic idea of measuring. We will also study three-dimensional shapes, halves and fourths, and centimetres.

If you have the downloadable version of this book (PDF file), you need to print this file as 100%, not “shrink to fit,” “print to fit,” or similar. If you print “shrink to fit”, some exercises about measuring in centimetres will not come out right, but will be “shrunk” compared to reality.

The goals of this section are:

- The student can identify common shapes, such as triangles, squares, rectangles, circles, and quadrilaterals.
- The student can draw lines with a ruler.
- The student develops understanding of measuring lengths as iterating (repeating) a measuring unit.

These are fairly simple goals, and the lessons in this chapter can be quite easy, but they are laying a foundation for later studies. For example, dividing shapes into parts helps build an understanding of part-whole relationships *and* fractions, as well as the properties of the original shape and of the parts. They may seem easy to us (and even to your child), but are necessary for a proper foundation for geometric understanding.

For additional practice, students can draw lines and other shapes however they are able to, divide them into other shapes, and draw patterns on grid paper. A tangram or block shapes are also excellent aids.

### The Lessons

	page	span
Basic Shapes .....	58	3 pages
Printable Shapes .....	61	1 page
Playing with Basic Shapes .....	63	3 pages
Drawing Basic Shapes .....	64	3 pages
Practising Basic Shapes and Patterns .....	67	3 pages
Halves and Quarters .....	70	4 pages
Measuring Length .....	74	4 page
Exploring Measuring .....	78	2 pages
Measuring Lines in Centimetres .....	80	2 pages
Three-Dimensional Shapes .....	82	2 pages
Revision .....	84	1 page

# Helpful Resources on the Internet

Use these free online resources to supplement the “bookwork” as you see fit.

**Disclaimer:** These links were valid at the time of the writing of this book, and to the best of our knowledge we believe these websites to have what is described. However, we cannot guarantee that the links have not changed. Parental supervision is recommended.

## Buzzing with Shapes

Tic tac toe with shapes; drag the counter to the shape that has that amount of sides.

<http://www.harcourtschool.com/activity/buzz/buzz.html>

## Patch Tool

An online activity where the student designs a pattern using geometric shapes.

<http://illuminations.nctm.org/ActivityDetail.aspx?ID=27>

## Shape Cutter

Draw any shape (polygon), cut it, and manipulate the cut pieces. You can have the computer mix them up, and then try to recreate the original shape.

<http://illuminations.nctm.org/ActivityDetail.aspx?ID=72>

## Shifting Shapes

Figure out what shape it is when viewing through a small opening! Click on the “eye” button to see it in its entirety.

<http://www.ictgames.com/YRshape.html>

## Polygon Matching Game

[http://www.mathplayground.com/matching\\_shapes.html](http://www.mathplayground.com/matching_shapes.html)

## Polygon Playground

Drag various colourful polygons to the work area to make your own creations!

<http://mathcats.com/explore/polygons.html>

## Shapes Identification Quiz from ThatQuiz.org

An online quiz in a multiple-choice format, asking to identify common two-dimensional shapes. You can modify the quiz parameters to your liking.

[www.thatquiz.org/tq-f/math/shapes/](http://www.thatquiz.org/tq-f/math/shapes/)

## Tangram puzzles for kids

Use the seven pieces of the Tangram to form the given puzzle.

Complete the puzzle by moving and rotating the seven shapes.

<http://www.abcya.com/tangrams.htm>

## Logic Tangram game

Note: this uses four pieces only. Use logic and spatial reasoning skills to assemble the four pieces into the given shape.

<http://www.mathplayground.com/tangrams.html>

## Interactive Tangram Puzzle

Place the tangram pieces so they form the given shape.

[http://nlvm.usu.edu/en/nav/frames\\_asid\\_112\\_g\\_2\\_t\\_1.html](http://nlvm.usu.edu/en/nav/frames_asid_112_g_2_t_1.html)

Sample worksheet from

[www.mathmammoth.com](http://www.mathmammoth.com)

### **Online Kaleidoscope**

Create your own kaleidoscope creation with this interactive tool.

[http://www.zefrank.com/dtoy\\_vs\\_byokal/](http://www.zefrank.com/dtoy_vs_byokal/)

### **Measure It!**

Click on the ruler to measure a red bar.

<http://www.funbrain.com/measure/index.html>

### **Measure Lines**

Move the ruler to measure the line in centimetres

[http://www.freewebtown.com/weddell/mw/ruler/ruler\\_cm.swf](http://www.freewebtown.com/weddell/mw/ruler/ruler_cm.swf)

### **Elementary Teddy Bear Measurement Game**

Measure the teddy bear with the ruler.

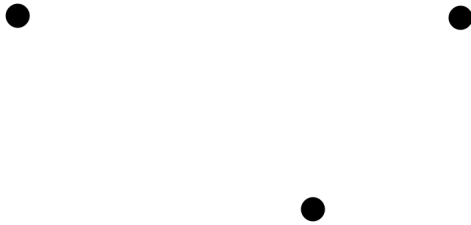
<http://www.apples4theteacher.com/measure.html>

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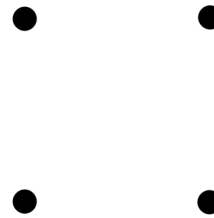
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## Drawing Basic Shapes

1. Use a ruler to join the dots carefully with straight lines. What shape do you get?



a. triangle / square / rectangle /  
other four-sided shape



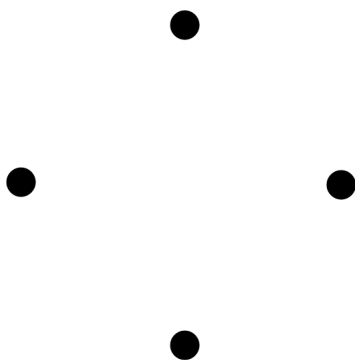
b. triangle / square / rectangle /  
other four-sided shape



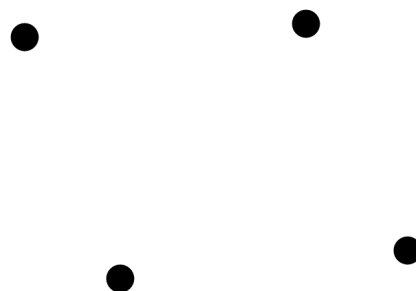
c. triangle / square / rectangle /  
other four-sided shape



d. triangle / square / rectangle /  
other four-sided shape



e. triangle / square / rectangle /  
other four-sided shape



f. triangle / square / rectangle /  
other four-sided shape

2. **a.** Draw four dots anywhere in this space.

Join the dots with lines. Use a ruler!

What shape did you get? A square,  
a rectangle, or just a four-sided shape?

**b.** This time try to draw four dots in this  
space so that you would get a rectangle.

**c.** Draw a rectangle. This time, use a BOOK to draw straight corners.



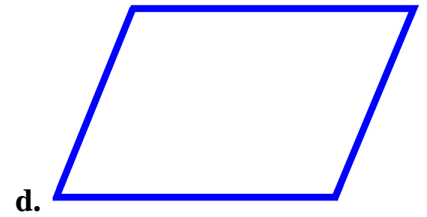
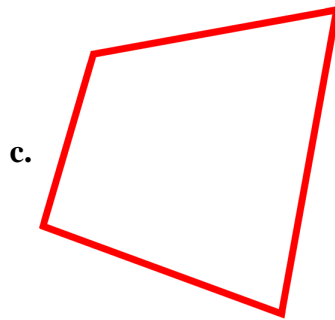
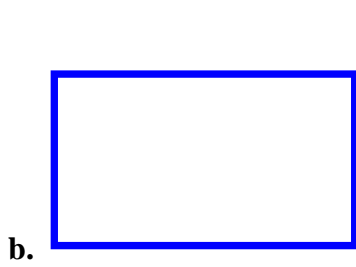
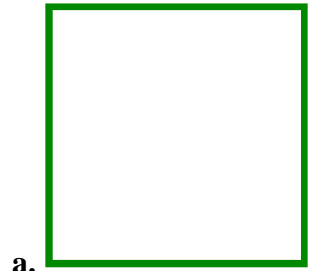
3. The shapes (a), (b), (c), and (d) below are four-sided shapes (quadrilaterals).  
 In each shape, draw a line from one corner to the opposite corner.

What kind of shapes do you get now? \_\_\_\_\_

Now draw another line from corner to corner in each shape,  
 using the two other corners you have not used yet.

How many parts does each four-sided shape have now? \_\_\_\_\_

What kind of shapes are these parts? \_\_\_\_\_

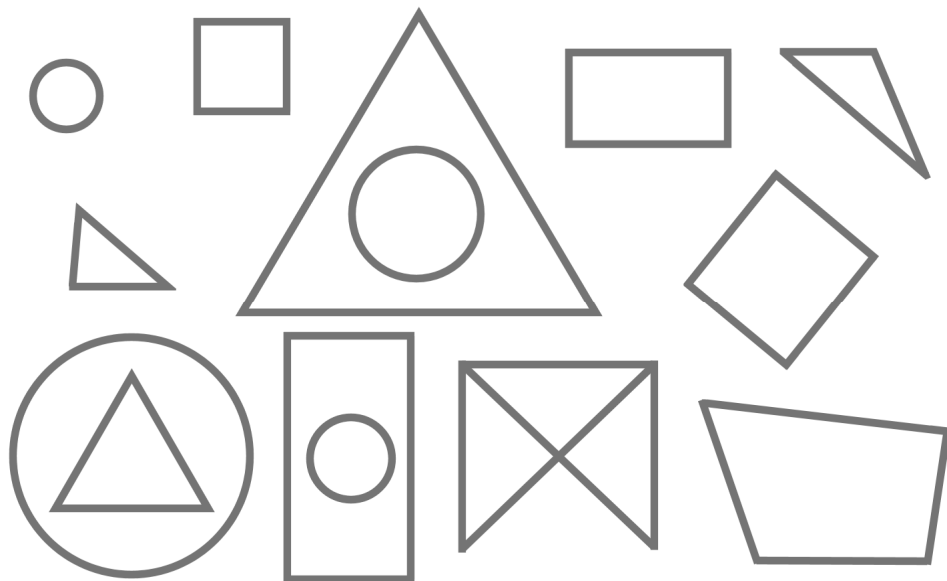


4. Choose a colour for each shape, and colour in!

Triangles are \_\_\_\_\_. Circles are \_\_\_\_\_.

Squares are \_\_\_\_\_. Rectangles are \_\_\_\_\_.

Other four-sided shapes are \_\_\_\_\_.



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# Chapter 7: Adding and Subtracting Within 0-100

## Introduction

The seventh chapter deals mostly with easy addition and subtraction problems within 0-100. Topics studied include:

- Adding a two-digit number and a single-digit number without completing the next ten: For example,  $23 + 4$  or  $56 + 3$ .
- Subtracting a two-digit number and a single-digit number without changing the ten (for example,  $45 - 3$  or  $67 - 6$ ).
- Adding and subtracting two-digit numbers in columns (under each other) without regrouping (carrying or borrowing).
- Recognising that sometimes in adding two-digit numbers we need to compose a new ten (go over to the next ten). We approach this concept using visual models, and do not proceed into the abstract form yet.
- Strategies for adding and subtracting within 20 (such as  $7 + 9$  or  $15 - 8$ ): a trick with nine and eight, adding just one more than a known sum, and using the relationship between addition and subtraction to subtract. Actually memorising these basic addition and subtraction facts is left for second grade.

### The Lessons

	page	span
Refresh Your Memory .....	87	2 pages
Adding Within the Same Ten .....	89	3 pages
Subtracting Within the Same Ten .....	92	3 pages
Add and Subtract Two-Digit Numbers .....	95	4 pages
Completing the Next Ten .....	99	3 pages
Going Over Ten .....	102	4 pages
Subtract from Whole Tens .....	106	2 pages
Add Using “Just One More” .....	108	2 pages
A “Trick” with Nine and Eight .....	110	3 pages
Adding within 20 .....	113	4 pages
Subtract to Ten .....	117	2 pages
Subtract Using Addition .....	119	3 pages
Some Mixed Revision .....	122	3 pages
Pictographs .....	125	2 pages
Revision .....	127	4 pages

# Helpful Resources on the Internet

Use these free online resources to supplement the “bookwork” as you see fit.

**Disclaimer:** *These links were valid at the time of the writing of this book, and to the best of our knowledge we believe these websites to have what is described. However, we cannot guarantee that the links have not changed. Parental supervision is recommended.*

## Add 'em Up

A game where you choose the correct answer to addition problems.

[http://www.primarygames.com/add\\_up/2a.htm](http://www.primarygames.com/add_up/2a.htm)

## Maths Games from AplusMath

Practise two-digit addition and subtraction with Matho, Hidden Picture, and Concentration.

<http://www.aplusmath.com/games/>

## Speed Grid Addition

Find numbers on the grid that add up to the given number.

<http://www.oswego.org/ocsd-web/games/SpeedGrid/Addition/urikares.html>

## Double Digit Addition

Match the addition problem with the correct sum. Enjoy!

<http://www.quia.com/mc/818288.html>

## Addition Level 2

A matching game where you add a one-digit number and a two-digit number.

<http://www.quia.com/mc/65798.html>

## Space Jumps

Adding two single-digit numbers, first jump to ten, then the rest to the spaceship. Practises addition that goes over ten.

<http://www.ictgames.com/spacejumps.html>

## Bridging Shuttle

Bridging Through Ten means the same as adding to ten first, then the rest. Get a “flight plan”, then first add to ten by typing the number needed into the oval, and press the red button. Then type the rest that the shuttle needs to go into the other oval, and press the red button.

<http://www.ictgames.com/bridging.html>

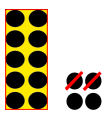
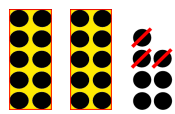
## Froggy Hop

Find 10 more or 1 more of a given number.

<http://www.ictgames.com/frog.html>

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## Subtracting Within the Same Ten

 $14 - 2 = \underline{12}$ “I can subtract $4 - 2 = 2$ ; the 10 stays the same.”	 $27 - 3 = \underline{24}$ “I can subtract $7 - 3 = 4$ ; the 20 stays the same.”	Think of the <i>ones digits</i> only. The tens do not change, because we don't have to subtract from the tens.
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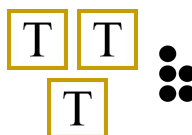
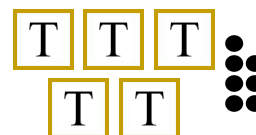
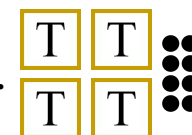
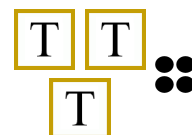
1. Subtract and compare. The top problem helps you solve the bottom one!

a. $8 - 2 = \underline{6}$  $28 - 2 = \underline{26}$	b. $7 - 6 = \underline{\quad}$  $17 - 6 = \underline{\quad}$	c. $7 - 7 = \underline{\quad}$  $67 - 7 = \underline{\quad}$
d. $6 - 6 = \underline{\quad}$  $56 - 6 = \underline{\quad}$	e. $9 - 8 = \underline{\quad}$  $49 - 8 = \underline{\quad}$	f. $5 - 2 = \underline{\quad}$  $95 - 2 = \underline{\quad}$

2. Subtract. Think of the “helping problem” that only uses numbers less than 10.

a. $54 - 2 = \underline{\quad}$  $4 - 2 = \underline{\quad}$	b. $76 - 2 = \underline{\quad}$  $\underline{\quad} - \underline{\quad} = \underline{\quad}$	c. $88 - 4 = \underline{\quad}$  $\underline{\quad} - \underline{\quad} = \underline{\quad}$
--	--	--

3. Subtract. Cross out dots. The boxes with “T’s” are tens.

a.  $35 - 4 = \underline{\quad}$  $35 - 3 = \underline{\quad}$  $35 - 2 = \underline{\quad}$	b.  $57 - 7 = \underline{\quad}$  $57 - 5 = \underline{\quad}$  $57 - 3 = \underline{\quad}$	c.  $48 - 2 = \underline{\quad}$  $48 - 4 = \underline{\quad}$  $48 - 6 = \underline{\quad}$	d.  $34 - 1 = \underline{\quad}$  $34 - 2 = \underline{\quad}$  $34 - 4 = \underline{\quad}$
--	--	---	--

4. Subtract.

<b>a.</b>	<b>b.</b>	<b>c.</b>	<b>d.</b>
$77 - 6 = \underline{\quad}$	$47 - 2 = \underline{\quad}$	$57 - 4 = \underline{\quad}$	$15 - 3 = \underline{\quad}$
$22 - 1 = \underline{\quad}$	$75 - 1 = \underline{\quad}$	$86 - 2 = \underline{\quad}$	$98 - 4 = \underline{\quad}$

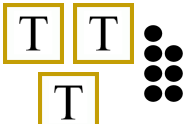
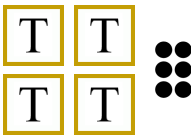

5. Find the missing numbers (addends).

<b>a.</b> $10 + \underline{\quad} = 15$	<b>b.</b> $21 + \underline{\quad} = 22$	<b>c.</b> $65 + \underline{\quad} = 69$
$32 + \underline{\quad} = 38$	$94 + \underline{\quad} = 95$	$33 + \underline{\quad} = 36$
$72 + \underline{\quad} = 79$	$44 + \underline{\quad} = 48$	$91 + \underline{\quad} = 98$

6. Solve.

<b>a.</b> In the morning, Ansie sold 21 pictures that she had painted and in the afternoon, she sold 7. How many pictures did she sell in total?
<b>b.</b> Ansie had 30 pictures to sell when she started. How many does she have left now?
<b>c.</b> Ansie can paint a picture in one hour. She started painting at 4:30 and painted three pictures. At what time did she stop painting?

7. Take away the ones (the dots) so that only the whole tens are left.

<b>a.</b> 	<b>b.</b> 	<b>c.</b> 
$37 - \underline{\quad} = 30$	$46 - \underline{\quad} = 40$	$28 - \underline{\quad} = \underline{\quad}$
<b>d.</b> $57 - \underline{\quad} = \underline{\quad}$	<b>e.</b> $85 - \underline{\quad} = \underline{\quad}$	<b>f.</b> $69 - \underline{\quad} = \underline{\quad}$



8. Solve. In the last row, make your own problems, and let a friend solve them!

a. $50 + \bigcirc = 57$	b. $\bigcirc + 2 = 88$	c. $79 - 9 = \bigcirc$
d. $\bigcirc - 5 = 20$	e. $90 - \bigcirc = 85$	f. $42 = 40 + \bigcirc$
$\bigcirc + \underline{\quad} = \underline{\quad}$		$\underline{\quad} + \bigcirc = \underline{\quad}$

9. Count in fives. Notice the patterns! A 100-chart or an abacus can help you.

- a. 10, 15, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
- b. 1, 6, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
- c. 3, 8, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

10. Continue the patterns.

a.	b.	c.
$88 - 0 = \underline{\quad}$	$95 - 2 = \underline{\quad}$	$48 - 1 = \underline{\quad}$
$88 - 1 = \underline{\quad}$	$85 - 2 = \underline{\quad}$	$46 - 1 = \underline{\quad}$
$88 - 2 = \underline{\quad}$	$75 - 2 = \underline{\quad}$	$44 - 1 = \underline{\quad}$
$88 - \underline{\quad} = \underline{\quad}$	$\underline{\quad} - \underline{\quad} = \underline{\quad}$	$\underline{\quad} - 1 = \underline{\quad}$
$88 - \underline{\quad} = \underline{\quad}$	$\underline{\quad} - \underline{\quad} = \underline{\quad}$	$\underline{\quad} - \underline{\quad} = \underline{\quad}$
$\underline{\quad} - \underline{\quad} = \underline{\quad}$	$\underline{\quad} - \underline{\quad} = \underline{\quad}$	$\underline{\quad} - \underline{\quad} = \underline{\quad}$
$\underline{\quad} - \underline{\quad} = \underline{\quad}$	$\underline{\quad} - \underline{\quad} = \underline{\quad}$	$\underline{\quad} - \underline{\quad} = \underline{\quad}$
$\underline{\quad} - \underline{\quad} = \underline{\quad}$	$\underline{\quad} - \underline{\quad} = \underline{\quad}$	$\underline{\quad} - \underline{\quad} = \underline{\quad}$

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# Chapter 8: Coins

## Introduction

The goals of this chapter are:

- The student is able to identify the common coins (5 cents, 10 cents, 20 cents, 50 cents, 1 rand, 2 rand, and 5 rand).
- The student can count the money in rand and cent coins when the cent sum is at most 100 cents.

While the book has pictures for the coins, practising with real coins is of course advisable.

The student also practises making given money amounts with coins, and using coins in simple shopping situations. We will practise shopping and giving change more in grades 2 and 3.

### The Lessons

	page	span
Five and Ten Cent Coins .....	132	2 pages
Twenty and Fifty Cent Coins .....	134	3 pages
Rand .....	137	3 pages
Practising with Coins .....	140	2 pages
Practising Shopping .....	142	2 pages
Mixed Revision, Chapters 1-8 .....	144	2 pages
Revision—Coins .....	146	1 page

### Helpful Resources on the Internet

**Disclaimer:** *These links were valid at the time of the writing of this book, and to the best of our knowledge we believe these websites to have what is described. However, we cannot guarantee that the links have not changed. Parental supervision is recommended.*

#### Counting South African coins worksheets

Create free worksheets for counting all South African coins and some banknotes. You can choose the number of coins, the maximum total amount, and the number of problems.

<http://www.homeschoolmath.net/worksheets/south-african-money.php>

#### South African Mint

See specially minted collector coins, such as the 2010 Natura Coin series with black rhinoceros, the Krugerrand Series, the Protea Series with Nadine Gordimer, and others. You will also find information about coin making and the current circulation coins.

<http://www.samint.co.za>

## Five and Ten Cent Coins



This is a five cent coin.  
It has the national bird  
of South Africa on it,  
the Blue Crane.  
It can be written "5 c".



This is a ten cent coin.  
It has an Arum Lily on it.  
It can be written "10 c".

In the exercises, we use small pictures of these coins. The 5 c coin is larger than the 10 c coin. The 10 cent coin is lighter in colour.


















Count  
up → 10 c 20 c 25 c 30 c 35 c 40 c

To find the total value, add the cent values. It's called counting up. Start counting with the coins of the largest value.









The total on the right is 40 c.

1. Count and write the total amount in cents.

<p>a. </p> <p>_____ cents</p>	<p>b. </p> <p>_____ cents</p>	<p>c. </p> <p>_____ cents</p>
<p>d. </p> <p>_____ cents</p>	<p>e. </p> <p>_____ cents</p>	<p>f. </p> <p>_____ cents</p>
<p>g. </p> <p>_____ cents</p>	<p>h. </p> <p>_____ cents</p>	<p>i. </p> <p>_____ cents</p>

						You can count each set of two fives as a ten.
10 c	20 c	30 c		40 c		


















2. Count and write the total amount in cents; especially notice all the fives.

<p>a. </p> <p> _____ cents</p>	<p>b. </p> <p> _____ cents</p>
<p>c. </p> <p> _____ cents</p>	<p>d. </p> <p> _____ cents</p>

















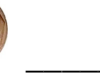



























3. Make these amounts of money in different ways using five cent and ten cent coins. You can use real money or draw circles with 5 and 10 on them.

a. 80 cents	b. 60 cents	c. 100 cents
d. 75 cents	e. 35 cents	f. 55 cents

## Twenty and Fifty-Cent Coins

 <p>This coin is worth twenty cents or 20 c.</p>	 <p>This coin is worth fifty cents or 50 c.</p>												
<p>The 20-cent coin usually has a King Protea flower on it. It is the national flower of South Africa. The 50-cent coin usually has a Strelitzia flower on it.</p>													
<table style="width: 100%; text-align: center;"> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Count up →</td> <td>50</td> <td>70</td> <td>80</td> <td>85</td> <td>90</td> </tr> </table> <p>Count up to find the total value of the cents. Start counting with the coins with the largest value. Here we have 90 cents.</p>								Count up →	50	70	80	85	90
													
Count up →	50	70	80	85	90								

1. Work out the coin value in cents.

<p>a.   _____ cents</p>	<p>b.    _____ cents</p>
<p>c.    _____ cents</p>	<p>d.     _____ cents</p>
<p>e.        _____ cents</p>	<p>f.         _____ cents</p>
<p>g.     _____ cents</p>	<p>h.     _____ cents</p>
<p>i.         _____ cents</p>	<p>j.          _____ cents</p>