Math Mammoth End of the Year Test - Grade 1 South African Version

This test is quite long, so I do not recommend that you have your child/student do it in one sitting. Break it up into parts and administer them either on consecutive days, or perhaps on morning/evening/morning. Use your judgment.

This is to be used as a diagnostic test. You may even skip those areas and concepts that you already know for sure the student has mastered.

The test does not cover every single concept that is covered in *Math Mammoth Grade 1*, but all of the major concepts and ideas are tested here. This test is evaluating the child's ability in the following content areas:

- basic addition and subtraction facts within 0-10
- two-digit numbers
- adding and subtracting two-digit numbers
- basic word problems
- clock to the nearest half hour
- measuring and geometry (shapes)
- counting coins

Note 1: If the student cannot read, the teacher can read the questions.

Note 2: problems 1 and 2 are done <u>orally and timed</u>. Let the student see the problems. Read each problem aloud, and wait a maximum of 5 seconds for an answer. Mark the problem as right or wrong according to the student's (oral) answer. Mark it wrong if there is no answer. Then you can move on to the next problem.

You do not have to mention to the student that the problems are timed or that he/she will have 5 seconds per answer, because the idea here is not to create extra pressure by the fact it is timed, but simply to check if the student has the facts memorised (quick recall). You can say for example (vary as needed):

"*I will ask you some addition and subtraction questions. Try to answer them as quickly as possible. In each question, I will only wait a little while for you to answer, and if you do not say anything, I will move on to the next problem. So just try your best to answer the questions as quickly as you can.*"

In order to continue with the Math Mammoth Grade 2, I recommend that the student gain at least a score of 80% on this test, and that the teacher or parent study with him any content areas in which the child is weak. Students scoring between 70% and 80% may also continue with grade 2, depending on the types of errors (careless errors or not remembering something, versus lack of understanding). Again, use your judgment.

Grading

My suggestion for grading is below. The total is 116 points. A score of 93 points is 80%. A score of 81 points is 70%.

Question	Max. points	Student score
Basic Addition and Subtraction Facts within 0-10		
1	8 points	
2	8 points	
3	4 points	
4	8 points	
4	8 points	
	subtotal	/ 36
Place Value and Two-Digit Numbers		
5	6 points	
6	4 points	
7	3 points	
	subtotal	/ 13
Adding and Subtracting Two-Digit Numbers		
8	6 points	
9	6 points	
10	4 points	
11	3 points	
	subtotal	/ 19

Question	Max. points	Student score
Basic Word Problems		
12	2 points	
13	2 points	
14	2 points	
15	2 points	
16	2 points	
17	6 points	
18	6 points	
	subtotal	/ 22
Clock		
19	6 points	
20	8 points	
	subtotal	/ 14
Geometry and Measuring		
21	2 points	
22	5 points	
	subtotal	/ 7
Money		
23	3 points	
24	2 points	
	subtotal	/ 5
	TOTAL	/ 116

End of the Year Test - Grade 1

In problems 1 and 2, your teacher will read you the addition and subtraction questions. Try to answer them as quickly as possible. In each question, he/she will only wait a little while for you to answer, and if you do not say anything, your teacher will move on to the next problem. So, just try your best to answer the questions as quickly as you can.
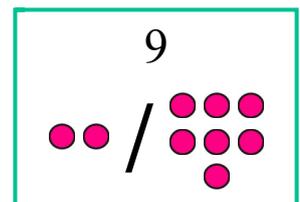
1. Add.

a.	b.	c.	d.
$2 + 3 =$ _____	$7 + 3 =$ _____	$6 + 2 =$ _____	$5 + 5 =$ _____
$4 + 4 =$ _____	$5 + 4 =$ _____	$4 + 6 =$ _____	$2 + 4 =$ _____
$1 + 6 =$ _____	$3 + 6 =$ _____	$2 + 5 =$ _____	$9 + 1 =$ _____
$2 + 7 =$ _____	$1 + 7 =$ _____	$6 + 2 =$ _____	$5 + 3 =$ _____

2. Subtract.

a.	b.	c.	d.
$8 - 3 =$ _____	$5 - 3 =$ _____	$7 - 3 =$ _____	$10 - 3 =$ _____
$6 - 4 =$ _____	$7 - 4 =$ _____	$9 - 4 =$ _____	$5 - 4 =$ _____
$10 - 6 =$ _____	$9 - 6 =$ _____	$4 - 3 =$ _____	$8 - 6 =$ _____
$8 - 7 =$ _____	$6 - 3 =$ _____	$10 - 7 =$ _____	$9 - 7 =$ _____

3. Write a fact family to match the picture.

_____ + _____ = _____   _____ + _____ = _____

_____ − _____ = _____   _____ − _____ = _____

4. Find the missing numbers.

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

Place Value and Two-Digit Numbers

5. Fill in the missing parts.

a. $20 + 7 = \underline{\quad}$	**b.** $6 + \underline{\quad} = 56$	**c.** $40 + \underline{\quad} = 40$
$5 + 60 = \underline{\quad}$	$30 + \underline{\quad} = 39$	$4 + \underline{\quad} = 94$

6. Put the numbers in order.

a. 16, 61, 26	**b.** 54, 14, 51
$\underline{\quad} < \underline{\quad} < \underline{\quad}$	$\underline{\quad} < \underline{\quad} < \underline{\quad}$

7. Compare the expressions and write $<$, $>$ or $=$.

a. $40 + 8$ ☐ $4 + 80$ **b.** $43 + 5$ ☐ 50 **c.** $3 + 33$ ☐ 36

Adding and Subtracting Two-Digit Numbers

8. Add.

a. $84 + 4 = \underline{\quad}$	**b.** $6 + 70 = \underline{\quad}$	**c.** $74 + 5 = \underline{\quad}$
$41 + 4 = \underline{\quad}$	$16 + 2 = \underline{\quad}$	$6 + 53 = \underline{\quad}$

9. Subtract.

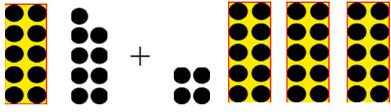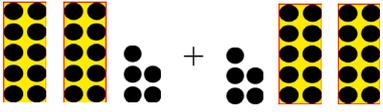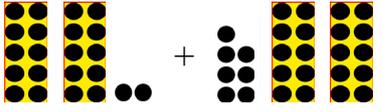|		
a. $80 - 30 = \underline{\quad}$	**b.** $55 - 3 = \underline{\quad}$	**c.** $29 - 3 = \underline{\quad}$
$17 - 3 = \underline{\quad}$	$100 - 40 = \underline{\quad}$	$50 - 2 = \underline{\quad}$

10. Add and subtract.

a.
$$\begin{array}{r} 1\ 4 \\ +\ 3\ 5 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 5\ 9 \\ -\ 3\ 4 \\ \hline \end{array}$$

c.
$$\begin{array}{r} 4\ 0 \\ +\ 5\ 6 \\ \hline \end{array}$$

d.
$$\begin{array}{r} 9\ 6 \\ -\ 6\ 0 \\ \hline \end{array}$$

11. Add. The images can help you.

a. $19 + 34 = $ _____

b. $25 + 25 = $ _____

c. $22 + 27 = $ _____

Basic Word Problems

12. Write a subtraction sentence that matches with the addition $6 + 8 = 14$.

_____ – _____ = _____

13. How many more is 70 than 50?   _____ more

14. Hannes owns four more toy cars than Thando, and Thando owns six toy cars.
   Draw Thando's cars and Hannes' cars.

15. Ten children are playing in the yard. There are 6 boys. How many girls are there?

16. Andrew had R20. He bought a sandwich for R10 and drink for R5.
    How much money does he have left?

17. A parking lot has 30 spaces for cars. There are cars in 22 of those spaces.

    a. How many spaces are empty?

    b. Now, two more cars drive in. How many cars are now in the parking lot?

    c. How many empty spaces are there now?

18. Thandi had 70 marbles and her sister had 55. Thandi gave 10 marbles to her sister.

    a. Now how many marbles does Thandi have?

    b. And her sister?

    c. Who has more? How many more?

Clock

19. Write the time in two ways: using *o'clock* and *half past*, and with numbers.

a.	b.	c.
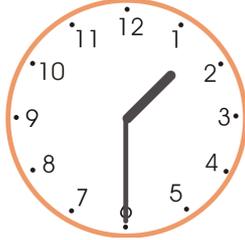
    a. _____ _____ _____ : _____

    b. _____ _____ _____ : _____

    c. _____ _____ _____ : _____

20. Write the time for a half-hour and an hour later from the given time. Use numbers.

Now it is:	**a.** 5:30	**b.** 7:00	**c.** 11:30	**d.** 12:00
a half-hour later, it is:				
an hour later, it is:				

21. Draw here a line that is:

    a. 3 centimetres

    b. 9 centimetres

22. **a.** Join these dots carefully with a ruler so that you get a shape.

          A .   **.B**

          D .   **. C**

b. What is this shape called? _____

c. Measure the sides of your shape in centimetres.

    Side AB: _____ cm   Side BC: _____ cm

d. Draw a straight line from dot A to dot C. The line divides your shape to two new shapes.

    What are the new shapes called? _____

Money

23. How much money? Write the amount.

a. _____ c	**b.** _____ c	**c.** _____ c

24. Solve.

You have:

You bought an apple for R2 and bubblegum for 50 c.

How much money do you have left? _____ c