

## GRADE 4 MATHS SYLLABUS - FIRST TERM

<b>INSTAMATHS EXERCISES</b>
1; 2; 3; 4; 4; 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17;
50; 51; 54; 55; 56; 57; 58;
60; 61; 73; 90;; 92

SYLLABUS	INSTAMATHS	WKSHEET 1-14	TEXT BK (UM)
<b>Story of Counting</b>			1-4
<b>Counting up to 999; 9999</b>			4-7;12-15
<b>Numbers on abacus/ number line</b>			8-11
<b>Place value (Th, H, T, U)</b>	11;	4	16-17
<b>Number Sequences</b>	15; 58	3	
<b>Writing words as numbers; numbers in words</b>	2; 4; 9;	7	
<b>Value of digits (as numbers);</b>		4	
<b>Expanded notation</b>	12;	5; 6	
<b>Rounding off</b>		12	
<b>Factors, Prime, Square; Even; Odd; =, &lt;, &gt;</b>		9	
<b>Multiples</b>	59	8	
<b>Making and breaking up hundreds</b>	7		
<b>Making 1 000</b>	13		
<b>Making 1 000's</b>	14		
<b>Basic Addition</b>	1; 16; 17	2	
<b>Basic Subtraction</b>	3;	2	
<b>Basic Addition and Subtraction</b>	5; 6; 10;	2	
<b>Advanced Addition</b>		11	91-103
<b>Advanced Subtraction</b>		12	104-111
<b>Money</b>	50; 51; 54; 55; 56; 57;	13	18-31
<b>Word problems</b>	8	14	

TABLES 4					
Week 1	2: 5; 10	Tables Pg 1 – 7 (7)	Week 6	7;8 + rev	Tables 28 – 31 (4)
Week 2	4;3 + rev	Tables Pg 8 – 15 (8)	Week 7	7;8;9 +rev	Tables 32 – 35 (4)
Week 3	6 + rev	Tables 16 – 19 (4)	Week 8	8;9 + rev	Tables 36 – 39 (4)
Week 4	7 + rev	Tables 20 – 23 (4)	Week 9	9;11 + rev	Tables 41-46 (6)
Week 5	6;7 + rev	Tables 24 – 27 (4)	Week 10	12+rev	Tables 47 – 50 (4)
			Week 11	Revision	



## 1. BASIC ADDITION and SUBTRACTION



Basic addition	Instamaths 1	Total 20	Your mark:
Basic subtraction	Instamaths 3	Total 20	Your mark:
Addition/ subtraction	Instamaths 4	Total 20	Your mark:
Addition/subtraction	Instamaths 6	Total 20	Your mark:
Addition/subtraction	Instamaths 16	Total 20	Your mark:
Addition in words	Instamaths 17	Total 20	Your mark:

# Doubles Jump

0	20	14	6
8	2	16	9
10	18	12	4



## 2. NUMBER SEQUENCE

Count around 1000	Instamaths 15	Total 20	Your mark:
Skip Counting	Instamaths 58	Total 20	Your mark:

When working out a number sequence you must work out the difference between the numbers. In the following example the pattern is going up in ones – so therefore you have to add 1 to 47 which gives you 48. You then add on 1 to 48 and you get 49. Fill in the answers.

45	46	47	?	?	50
45	46	47	48	49	50

Fill in the missing numbers:

23	26	29		35	
33	32	31	30		
18	14	10			-2
6	12	18		30	
5	10	20		80	

Look at the patterns below and fill in the missing gaps. The first one is done for you.

100	200	300	400	500	600
50	150	250			
193	293	393			
100	990	80			
925	825	725			



### 3. PLACE VALUE AND VALUE

#### PLACE VALUE

Place Value	Instamaths 11	Total 20	Your mark:
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Place value is the idea that a figure has a different value when used in different places.

In the number 7 853

The place value of the 7 = 7 Thousands

8 = 8 Hundreds

5 = 5 Tens

3 = 3 Units

What is the place value of the underlined digits? (Thousands, hundreds, tens, units)

a) 330 \_\_\_\_\_ b) 3 621 \_\_\_\_\_ c) d) 5 340 \_\_\_\_\_

d) 4 489 \_\_\_\_\_ e) 8 529 \_\_\_\_\_

Value is the actual number represented.

In the number 7 853

The value of the 7 = 7 000

8 = 800

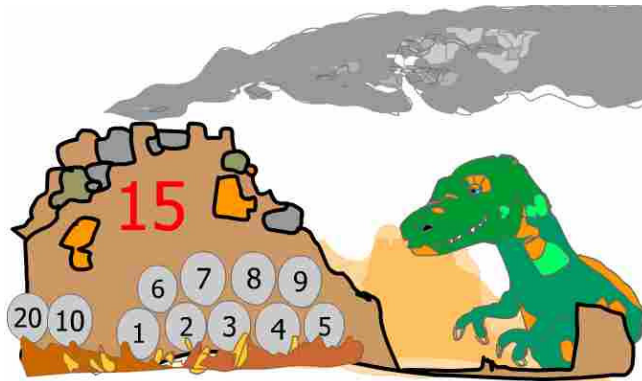
5 = 50

3 = 3

What is the value of the underlined digit? (8; 20; 300 etc)

a) 330 \_\_\_\_\_ b) 3 621 \_\_\_\_\_ c) 5 340 \_\_\_\_\_

d) 4 489 \_\_\_\_\_ e) 8 529 \_\_\_\_\_



#### 4. EXPANDED NOTATION : 1

Expanded notation	Instamaths 12	Total 15	Your mark:
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7 853 written in expanded notation is:  $7\ 000 + 800 + 50 + 3$

1. Write the following in expanded notation:

a)  $1\ 582 =$  \_\_\_\_\_

b)  $6\ 300 =$  \_\_\_\_\_

c)  $5\ 024 =$  \_\_\_\_\_

d)  $7\ 801 =$  \_\_\_\_\_

e)  $4\ 008 =$  \_\_\_\_\_

2. Write the answers:

a)  $4\ 000 + 500 + 60 + 7 =$  \_\_\_\_\_

b)  $9\ 000 + 60 + 3 =$  \_\_\_\_\_

c)  $2\ 000 + 800 + 3 =$  \_\_\_\_\_

d)  $7\ 000 + 6 =$  \_\_\_\_\_

e)  $800 + 40 + 3\ 000 + 2 =$  \_\_\_\_\_ (Rearrange numbers from biggest to smallest)

3. Write these numbers in digits:

a) One hundred and fifty \_\_\_\_\_

b) Four hundred and five \_\_\_\_\_

c) Seven hundred and nineteen \_\_\_\_\_

d) Eight hundred and fifty seven \_\_\_\_\_

e) Two thousand five hundred and two \_\_\_\_\_

## EXPANDED NOTATION: 2

4. Complete the table, the first one is done for you.

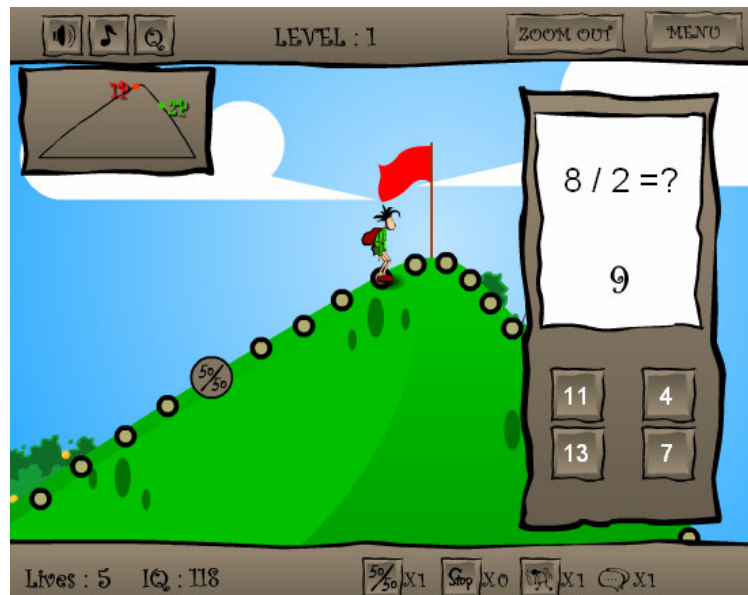
	Hundreds	Tens	Units
386	3	8	6
526			
98			
360			
407			

5. Fill in the missing numbers. The first one is done for you.

472 =	400	+	70	+	6
386 =	300	+		+	6
526 =	500	+	20	+	
98 =	0	+		+	8

Underline the biggest number. The first one has been done for you.

- a) 100      250      48
- b) 626      386      360
- c) 123      120      124
- d) 999      45      874



## 5. WRITING NUMBERS

<b>Addition in words</b>	<b>Instamaths 2</b>	<b>Total 10</b>	<b>Your mark:</b>
<b>Subtraction in words</b>	<b>Instamaths 4</b>	<b>Total 10</b>	<b>Your mark:</b>
<b>Writing big numbers</b>	<b>Instamaths 9</b>	<b>Total 10</b>	<b>Your mark:</b>

Write the numbers using digits, the first one is done for you.

<b>Using words</b>	<b>Using digits</b>
<b>Eight hundred and twenty-four</b>	<b>824</b>
<b>Three hundred and sixty-five</b>	
<b>Eighty-nine</b>	
<b>Two hundred and forty three</b>	
<b>Nine hundred and two</b>	

<b>Using digits</b>	<b>Using words</b>
<b>824</b>	<b>Eight hundred and twenty-four</b>
<b>256</b>	
<b>358</b>	
<b>15</b>	
<b>803</b>	
<b>111</b>	



## 6. MULTIPLES

3; 6; 9; 12; 15; 18 are multiples of 3. They can all be divided exactly by 3.

4; 8; 12; 16; 20; 24 are multiples of 4. They can all be divided exactly by 4.

Counting in 2's

0	2	4			
6	8	10			
12	14	16			

Which of these numbers are multiples of 2? Circle them.

6	11	4	10	5	8
3	7	1	2	9	12

MULTIPLES OF 2, 5, 10

<b>Put a ring around the numbers which are multiples of 2</b>					
115	5	2	16	4	8
<b>Put a ring around the numbers which are multiples of 5</b>					
10	12	23	5	8	16
<b>Put a ring around the numbers which are multiples of 10</b>					
12	19	100	11	4	30
<b>Put a ring around the numbers which are multiples of 2</b>					
5	8	22	31	60	53
<b>Put a ring around the numbers which are multiples of 5</b>					
12	15	20	54	85	70
<b>Put a ring around the numbers which are multiples of 10</b>					
14	40	16	70	100	22



## 7. FACTORS

Factors are the opposite of multiples. They are those numbers that will divide exactly into other numbers. Factors are the numbers which divide into a number.

The factors of 12 are: 1, 2, 3, 4, 6 and 12.

These can be shown as pairs of factors:  $1 \times 12$ ;  $2 \times 6$ ;  $3 \times 4$ . They all equal 12.

The factors of 15 are: 1, 3, 5 and 15.

These can be shown as pairs of factors:  $1 \times 15$ ;  $3 \times 5$ . They all equal 15.

Exercise:

- a) List the factors of 9 \_\_\_\_\_
- b) List the factors of 16 \_\_\_\_\_
- c) List the factors of 25 \_\_\_\_\_
- d) List the factors of 24 \_\_\_\_\_

## 8. PRIME NUMBERS

Prime numbers are special numbers than can only be divided by themselves and 1.

19 is a prime number it can only be divided by 1 and 19.

9 is not a prime number – it can be divided by 3 as well as by 1 and 9.

**PRIME NUMBERS UP TO 30: 2; 3; 5; 7; 11; 13; 17; 19; 23; 29 (Two = only even prime no)**

## 9. SQUARE NUMBERS

To make a square number, multiply a number by itself.

$2 \times 2 = 4$  which is a square number.

$3 \times 3 = 9$  which is a square number.

## 10. ODD AND EVEN NUMBERS

Even numbers are divisible by 2.

Odd numbers are numbers that are not divisible by 2.

## 11. GREATER AND LESS THAN; EQUAL TO

**> = GREATER THAN**

**< = LESS THAN**

**= EQUAL TO**

Fill in the correct symbols: > or < or =

3	4	67	32	34	52	17	2	6	6
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## 12. ROUNDING OFF

**Remember:** 1; 2; 3 and 4 get rounded down  
 5; 6; 7; 8 and 9 get rounded up  
 These rules work for all numbers whether you are using tens, hundreds or thousands.

**Examples: to the nearest 10**

- a) 6 rounded off to the nearest 10 is 10 because it is closer to 10 than 0.
- b) 43 rounded off to the nearest 10 is 40 because it is closer to 40 than 50.
- c) 155 rounded off to the nearest 10 is 160 because it is closer to 160 than 150.

**Examples: to the nearest 100**

- a) 25 rounded off to the nearest 100 is 0 because it is closer to 0 than 100.
- b) 132 rounded off the nearest 100 is 100 because it is closer to 100 than 200.
- c) 250 rounded off to the nearest 100 is 300 because it is closer to 300 than 200.

Round off the following to the nearest 10.

58	63	45	3	99
321	189	249	2 162	1 345

Round off the following to the nearest 100.

26	87	132	278	350
1 369	2 521	3 001	2 500	49

List all the numbers that can be rounded off to 540 to the nearest 10. Look at the example before you go ahead.

320	315	316	317	318	319	320	321	322	323	324
540										
230										

How many multiples of 10 are there in 100? \_\_\_\_\_

How many multiples of 100 are there in 1000? \_\_\_\_\_

### 13. ADDITION

- Make sure when setting out your sum that your numbers must go in the correct Thousands, Hundreds, Tens and Units columns.
- When starting to add, make sure you start with your unit column first.
- Start your sum in the middle of the page and write one number per column.

Eg  $3\ 437 + 1\ 242$

$$\begin{array}{r} 3437 \\ + 1242 \\ \hline 4679 \end{array}$$

#### EXERCISE A

1.  $348 + 258$
2.  $584 + 384$
3.  $680 + 258$
4.  $275 + 359$
5.  $342 + 598$

#### EXERCISE B

1.  $3\ 539 + 2\ 318$
2.  $2\ 589 + 1\ 539$
3.  $3\ 214 + 2\ 349$
4.  $5\ 112 + 3\ 211$
5.  $3\ 982 + 2\ 132$

#### EXERCISE C

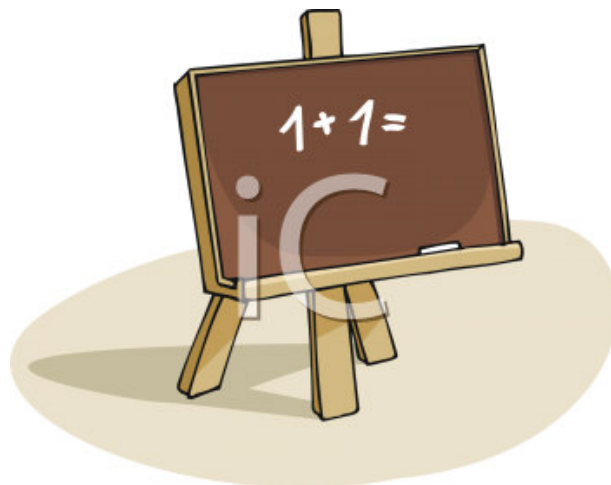
1.  $3\ 582 + 389$
2.  $359 + 1\ 325$
3.  $453 + 62$
4.  $1\ 357 + 499$
5.  $6\ 211 + 98$

#### EXERCISE D

1.  $3\ 543 + 2 + 367$
2.  $24 + 236 + 2\ 543$
3.  $5\ 436 + 66 + 135$
4.  $3\ 678 + 9 + 245$
5.  $24 + 6 + 1\ 567$

#### EXERCISE E

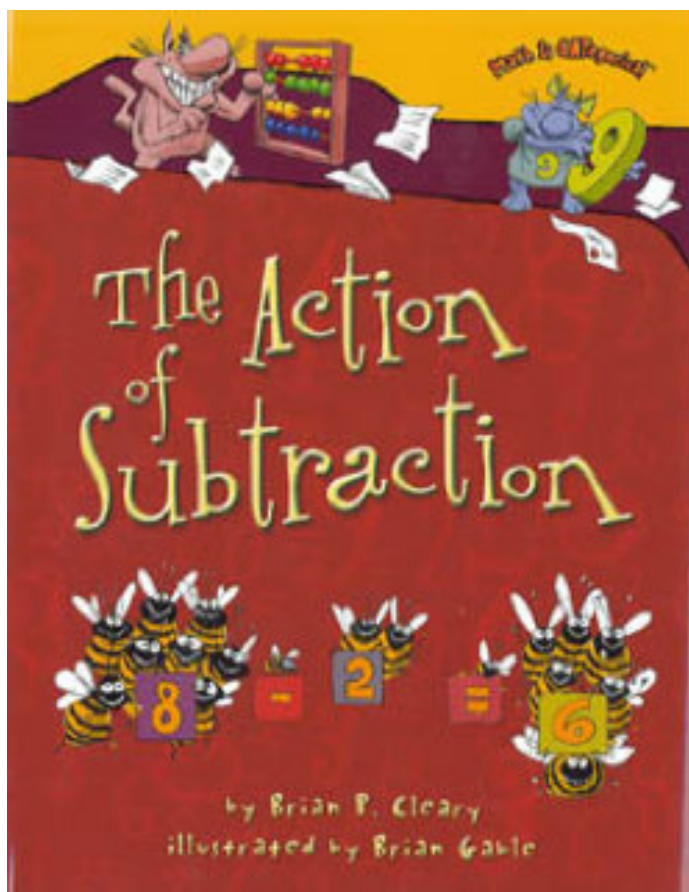
1.  $4\ 654 + 3 + 564 + 25$
2.  $31 + 16 + 2\ 546 + 365$
3.  $342 + 5\ 654 + 22 + 248$
4.  $2\ 546 + 34 + 256 + 7$
5.  $7 + 24 + 235 + 1\ 458$



## 14. SUBTRACTION

EXERCISE A	EXERCISE B	EXERCISE C
1. $643 - 531$	1. $835 - 768$	1. $5902 - 3893$
2. $986 - 742$	2. $427 - 367$	2. $4258 - 2673$
3. $537 - 326$	3. $742 - 567$	3. $5356 - 3567$
4. $531 - 428$	4. $426 - 269$	4. $3672 - 1870$
5. $862 - 754$	5. $867 - 388$	5. $5300 - 3485$

EXERCISE D	EXERCISE E
1. $4300 - 3788$	1. $6436 - 4088$
2. $6030 - 5543$	2. $4330 - 2972$
3. $3254 - 1987$	3. $5342 - 3251$
4. $5345 - 399$	4. $2400 - 897$
5. $4009 - 3876$	5. $7592 - 2385$



## 15. MONEY

- Convert all money to Rands and cents and then add or subtract.
- Before you start, set out the sum putting an R sign next to the top number.
- Write down the amounts putting them into Rands and cents. The commas must go directly underneath each other with 2 numbers after each comma.
- Put the R sign and the comma on the answer line – this is so you do not forget and therefore get the sum wrong.
- If working in Rands and cents, do not put any “cents” in your answer... just the R sign.

Example:     R 145,32  
                   22,08  
                   21,76  
                   150,43  
                   R 199,53

EXERCISE A	EXERCISE B
1. R 34, 12 + R 6, 09 + R157,34 + 55c 2. 5 432c + 654c + 6 c + R44,23 3. R16,54 + 46c + R457.43 + 66c 4. 234c + 8c + 9843c + 38c (Ans in Rand) 5. R12,45 + R323,56 + R55,89	1. R 234,90 – R24,89 2. R 234,76 – 5 321c 3. R 465,94 – R136,96 4. 5436c – R 21,78 5. R 104,04 – 87 c

### INSTAMATHS EXERCISES TO DO WITH MONEY

Money: cents to rands	Instamaths 50	Total 20	Your mark:
Money: rands to cents	Instamaths 51	Total 20	Your mark:
Money and change	Instamaths 54	Total 20	Your mark:
Change	Instamaths 55	Total 20	Your mark:
Money: + and -	Instamaths 56	Total 20	Your mark:
Money: more	Instamaths 57	Total 20	Your mark:

## 16. PROBLEM SOLVING (MONEY)

### ADDITION AND SUBTRACTION PROBLEMS

1. John had R 42,26 more than Jack who has R 23,98. How much money does John have? (3)
2. Henry had R 31,29 and then bought ice creams for R 27,45. How much has he left? (3)
3. Chris has R 73,26. He needs R 94,18 to buy felt tips. How much more money does he need to buy them? (3)
4. It costs Chris R 4,16 to post two parcels. One parcel costs R3,32 to post. How much does the other parcel cost to post? (3)
5. Jack buys a book for R 131,26 and a magazine for R 22,09. How much does he spend altogether? (3)

6.

Tea : 55c	Ice-cream: 75c	Burger: R1,55
Scone: 35 c	Coke: 45 c	Crisps: 37c

- a) How much would I pay if I bought 1 tea, 1 scone and 1 ice cream? (1)
- b) What change would I get from a R2,00 note? (1)
- c) How much would I pay if I bought a coke, burger, crisps and 1 ice cream? (1)
- d) How much change would I get from a R10,00 note? (1)
- e) How much would 3 burghers cost me? (1)



**TOTAL: 20 MARKS**

