



GRADE 4

[33m]

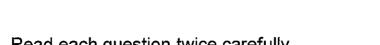
TOM NEWBY SCHOOL EXAMINATION

Subject	MATHEM	ATICS	Examiner	MRS. R. VAN SCHALKWYK
Date	11 NOVE	MBER 2016	Total marks	75
Session	1		Duration	2 HOURS
Grade	4		Moderator	MRS. M FOURIE
Special instructions/		INSTRUCTIONS	<u>.</u>	

This Mathematics Exam has been compiled using notes and information contained in the Tom Newby School book. The marking memorandum has been compiled accordingly. While alternative responses will be given due acknowledgement, the official memorandum will be considered a priority document to ensure uniformity of marking.

INSTRUCTI	ONS:

NAME AND SURNAME:





SECTION A

- 1. Read each question twice carefully.
- 2. Write all numbers neatly and clearly.
- 3. Show ALL calculations.
- 4. Check your work.
- 5. GOOD LUCK!

 $(4 \times 25) + \underline{\hspace{1cm}} = (3 \times 20) + 240$

QUESTION 1				
Calculate and fill in the answers.				
a.	The next even number after 2 599 is			
b.	Round 7 965 off to the nearest 100.			
C.	Round 8 646 off to the nearest 1 000.			
d.	Complete the number sentence below.			

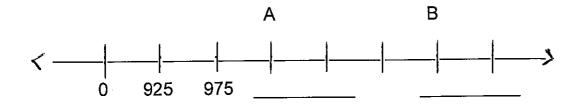
WHOLE NUMBERS

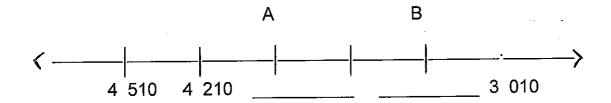
e.	Expand the number 6 915:	
	(6x)+(9x)+(1x)+(5x)
f.	Double the number 5 472	
g.	Halve the number 6 530	
h.	Write as a number: ten thousand eight hundred and twelve.	
i.	Give the total of the number values of the underlined digits in	
	<u>1</u> 2 9 <u>8</u> 7.	
j.	Make the biggest odd number using all the digits below:	
	0 3 6 1	· · · · · · · · · · · · · · · · · · ·
k.	What are the factors of 8?	
١.	What is the product of 12 and 100?	<u> </u>
		(12)

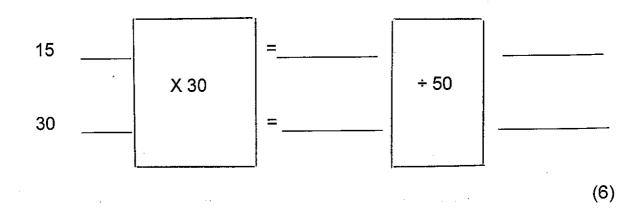
Fill in the missing numbers by completing the number patterns, number lines and spider diagram.

3	650,	3	850 ,	4	050	1	
Q	520	Ω	റാറ	7	520		









Check if the following calculations are correct. Remember you use the opposite calculation.

a. ACTUAL CALCULATION

4 678

+ 3 572

8 250

CHECKING

(2)

QUESTION 4

Calculate the answers. Show all the steps of the method you use and the answers clearly.

....

(2)

 $59 \times 16 = c$

 $496 \div 9 = d$

(3)

(3)

(10)

Problem Solving. Remember to give an open number sentence and calculation.

b. There was 750 l o	on Tuesday,	how much	water is le		onday
					(3)
SECTION B QUESTION 1 Fill in > , < or =.		TIME AND	FRACTION OF THE PROPERTY OF TH	<u>ONS</u> [14m]
2 ½ hrs	150 min	16 days		2 weeks	
¼ day	8 hrs	2 years		24 month	n (2)

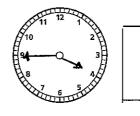
Read and write the time shown on the clocks in digital and analogue time.

a.



(p.m.)

b.



(a.m.)

(4)

QUESTION 3

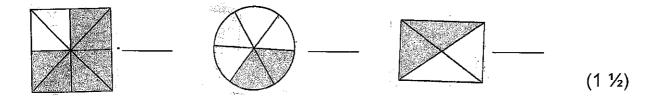
Calculate the following answers:

- a. The nurse works from 6 a.m. to6 p.m. from Tuesday to Friday.How many hours does shework per week?
- b. Grandma was born in 1938.
 How old will Grandma be this year?

Calculation:		
Ańswer:		

Calculation:	
Answer:	(2)

a. What fraction of each diagram is shaded in?



b. Use the diagrams above to guide you and give an equivalent fraction for:

$$\frac{3}{4} = - \qquad \frac{1}{3} = - \qquad \frac{1}{2} = - \tag{1.1/2}$$

c. Calculate the following fractions.

$$\frac{4}{7} + \frac{2}{7} = -\frac{8}{10} - \frac{3}{10} = -$$
 (1)

d. Dad takes a quarter of an hour to fix the leaking taps in our house. How many minutes is that? Please complete the open number sentence and calculation.

SECTION C

GEOMETRY

[10m]

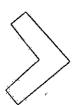
QUESTION 1

Name the shapes below:





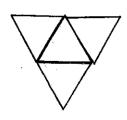




(4)

QUESTION 2

If you cut out the net below, what shape would it make?
Underline the correct answers in each bracket.



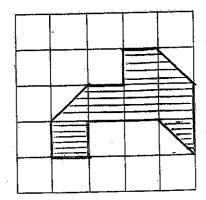
This is a (2-D, 3-D,) shape called a (rectangular prism, triangular pyramid, square pyramid, triangular prism) which has (3, 4, 5) faces and (3, 4, 5) vertices.

(2)

QUESTION 3

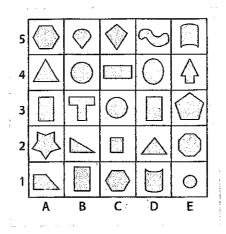
What is the perimeter and area of the shape drawn below?

Each block is = 1 cm.



Look at the grid below and give the position of each of the following:

- a. the kite
- b. the star
- c. the pentagon
- d. the trapezium



(2)

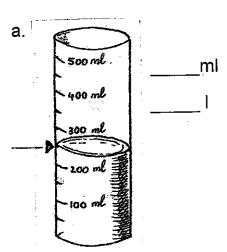
SECTION D

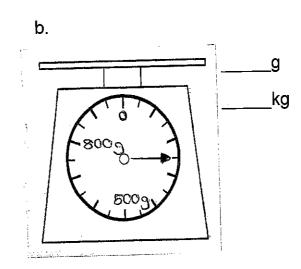
DECIMAL FRACTIONS

[11m]

QUESTION 1

Give the readings indicated by the arrows on each object and convert the amounts.

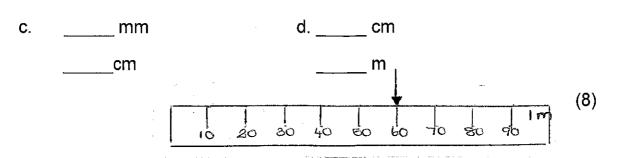




(1)



t-shirts at R47 each?



QUESTION 2

Study the pictures below and complete the questions.



a. If your mom bought two dresses and a pair of sandals, what would she pay? Show your calculation.

(2)

b. Would it be cheaper to buy a 2 pack of t-shirts @ R90 or two single

SECTION E

DATA HANDLING

[7m]

QUESTION 1

The table below compares the Grade 4 and Grade 5 learners' favourite subjects.

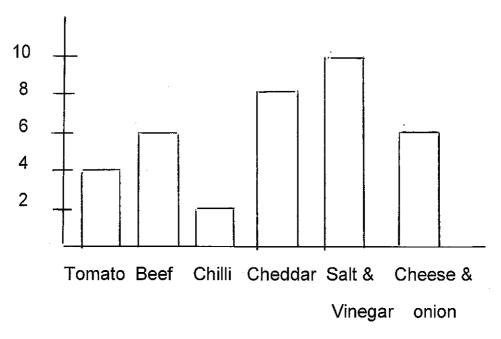
Subjects	Grade 4	Grade 5
Social Sciences	4	6
Languages	6	10
Mathematics	15	12
Natural Sciences	5	2

a. How many learners	from each Grade took part in this survey?	
Grade 4 =	Grade 5 =	
b. Which two subjects	are the least popular in Grade 5?	
		(2)

QUESTION 2

The graph on the following page shows the results of a survey done amongst the Grade 6

learners. It shows the crisps' flavours they enjoy the most.



- a. How many crisps' flavours were used in this survey?
- b. How many learners chose cheddar as their favourite flavour?
- c. Which flavour was the most popular?
- d. Was the number of learners who preferred salt and vinegar more than, or less than, half of the total number in the group?
- e. What is the difference between the most popular and the least popular flavours (totals)?

(5)





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NAME AND SURNAME:	Memo	GRADE 4 \/

INSTRUCTIONS:



- 1. Read each question twice carefully.
- 2. Write all numbers neatly and clearly.
- 3. Show ALL calculations.
- 4. Check your work.
- 5. GOOD LUCK!

SECTION A

WHOLE NUMBERS

[33m]

QUESTION 1

Calculate and fill in the answers.

a. The next even number after 2 599 is

2 600

b. Round 7 965 off to the nearest 100.

8 och

c. Round 8 646 off to the nearest 1 000.

9 000

d. Complete the number sentence below.

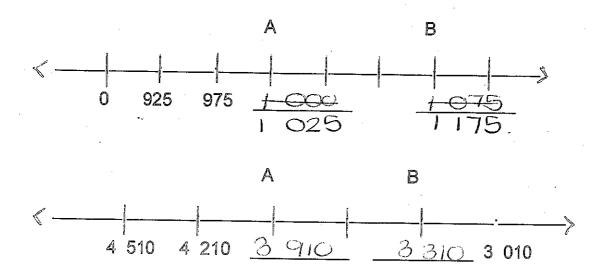
$$(4 \times 25) + 200 = (3 \times 20) + 240$$

е.	Expand the number 6 915:	
	(6x <u>/00</u>)+(9x <u>/00</u>)+(1)	(<u>10</u>)+(5x <u> </u>
Ÿ.	Double the number 5 472	10 914x
g.	Halve the number 6 530	<u> </u>
h.	Write as a number: ten thousand eight hu	ndred and twelve.
i,	Give the total of the number values of the	underlined digits in
	<u>1</u> 2 9 <u>8</u> 7.	<u> 10.080 </u>
j.	e digits below:	
	0 3 6 1	6 301
k.	What are the factors of 8?	1,2,4,8
	What is the product of 12 and 100?	1.200
	-	(12) Îm Exces
	-071010	

Fill in the missing numbers by completing the number patterns, number lines and spider diagram.

3	650,3	850,4	050 ,	h 250	,	Ä.	450	
8	520,8	020 , 7	520,			6	620	





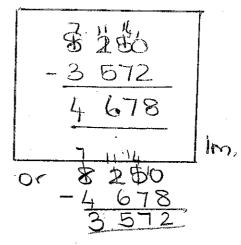
(6) 1/2 m Each conscient.

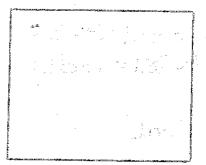
QUESTION 3

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a. ACTUAL CALCULATION

CHECKING





(2)

QUESTION 4

Calculate the answers. Show all the steps of the method you use and the answers clearly.

Invettua

(2)

6	495	_	2	639	=	b

(2)

$$59 \times 16 = c$$

(3)

$$496 \div 9 = d$$

(3)

(10)

Problem Solving. Remember to give an open number sentence and calculation.

b. There was 750 I of water in the rain tank. If we used 320 I on Monday and another 170 I on Tuesday, how much water is left?

750.l	$-(320+\Gamma$	10 l) = li
786	320	
-490	+170	
260·l	V 490l	·
	7. 2 Mary 10 M	

(3)

SECTION B

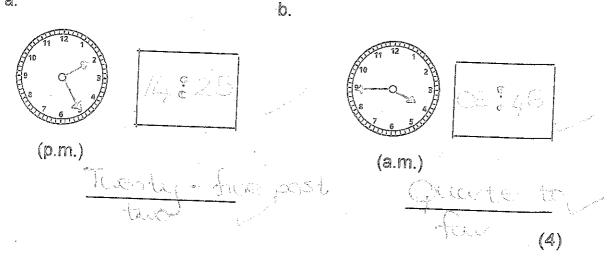
TIME AND FRACTIONS [14

QUESTION 1

Fill in >, < or =.

Read and write the time shown on the clocks in digital and analogue time.

a.

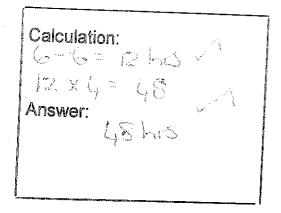


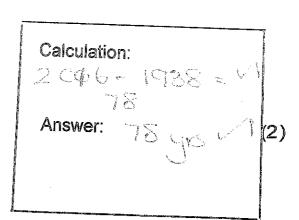
QUESTION 3

Calculate the following answers:

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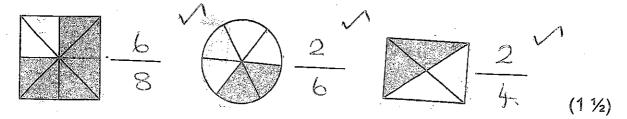




7

QUESTION 4

a. What fraction of each diagram is shaded in?



b. Use the diagrams above to guide you and give an equivalent fraction for:

$$\frac{3}{4} = \frac{6}{8} \qquad \frac{1}{3} = \frac{2}{6} \qquad \frac{1}{2} = \frac{2}{4} \qquad (1.12)$$

c. Calculate the following fractions.

$$\frac{4}{7} \div \frac{2}{7} = \frac{6}{7} \qquad \frac{8}{10} = \frac{3}{10} = \frac{5}{10} \qquad (1)$$

d. Dad takes a quarter of an hour to fix the leaking taps in our house. How many minutes is that? Please complete the open number sentence and calculation.

$$\frac{1}{4}$$
 of $\frac{1}{60} = 15$ min. (2)

SECTION C

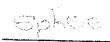
GEOMETRY

[10m]

QUESTION 1

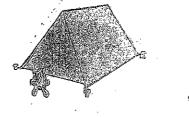
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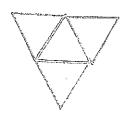
Perlago



throngedon he xogon

QUESTION 2

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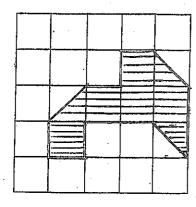
This is a (2-D, 3-D,) shape called a (rectangular prism, triangular pyramid, square pyramid, triangular prism) which has (3, 4, 5) faces and (3, 4, 5) vertices.

Z E(6(2)

QUESTION 3

What is the perimeter and area of the shape drawn below?

Each block is = 1 cm.



Look at the grid below and give the position of each of the following:

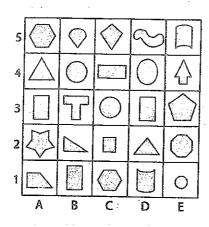
- a. the kite
- b. the star
- c. the pentagon
- d. the trapezium

C5

AZ

E3

Al



i 2 each - (2)

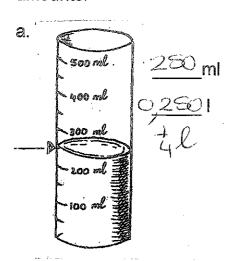
SECTION D

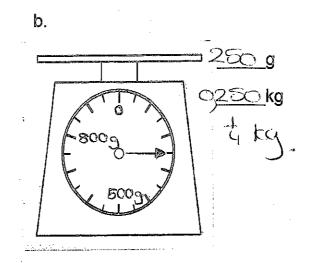
DECIMAL FRACTIONS

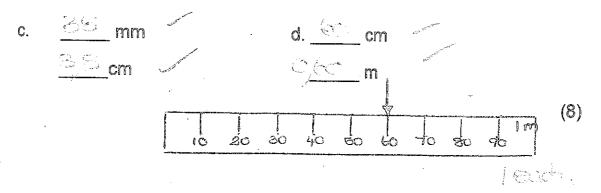
[11m]

QUESTION 1

Give the readings indicated by the arrows on each object and convert the amounts.

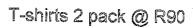






Study the pictures below and complete the questions.

Dress @ R365,95









a. If your mom bought two dresses and a pair of sandals, what would she

pay? Show your calculation.
(2x 代36595) 小 代1458 年 6 2 年 6 2 年 8 8 年 8 年 8 8 年

b. Would it be cheaper to buy a 2 pack of t-shirts @ R90 or two single

t-shirts at R47 each?

R47 x 2 = p94

(1)

(2)

so a 2 prot cost less.

SECTION E

DATA HANDLING

[7m]

QUESTION 1

The table below compares the Grade 4 and Grade 5 learners' favourite subjects.

Subjects	Grade 4	Grade 5
Social Sciences	4	6
Languages	6	10
Mathematics	15	12
Natural Sciences	5	2

a. How many learners from each Grade took part in this survey?

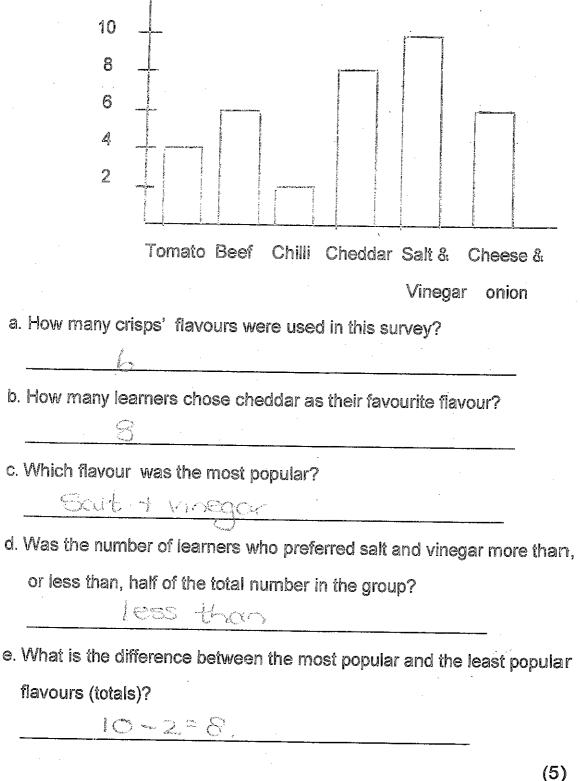
b. Which two subjects are the least popular in Grade 5?

Matural	Sciences	Social	Siences	(2)
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QUESTION 2

The graph on the following page shows the results of a survey done amongst the Grade 6

learners. It shows the crisps' flavours they enjoy the most.



(5

1 ends

TOTAL: 75