



MEMO
TOM NEWBY SCHOOL EXAMINATION



Subject	MATHEMATICS	Examiner	MRS R. VAN SCHALKWYK
Date	12 JUNE 2017	Total marks	75
Session	1	Duration	1½ HOURS
Grade	4	Moderator	MRS. M. FOURIE
Special instructions/ Equipment	<ol style="list-style-type: none">1. Read each question twice carefully.2. Write all numbers clearly and neatly.3. Show all your calculations. Highlight important words in questions to help you.4. Check your work.5. Please remember a Ruler!6. Good luck!!		
<small>This assessment has been compiled using notes and information contained in the Tom Newby School resource material. 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.</small>			

Name:	Surname:	Class:
--------------	-----------------	---------------

SECTION A

MENTAL MATHS

(10)

Underline the correct answer.

1. The place value of the 4 in 15 493 is equal to
(4U; 4TH; **4H**; 4T)
2. $(1 \times 10) + (2 \times 1\ 000) + (6 \times 1) + (0 \times 100)$ equals
(2 160 ; 2 610 ; 2 061 ; **2 016**)
3. Calculate the total of 8 050 and 850.
(8 800 ; **8 900** ; 9 000 ; 9 100)
4. Half of 5 706 is : (2 3 43 ; 2 803 ; **2 853** ; 2 553)
5. What number is missing in $(12 \times 6) + 8 = \underline{\hspace{2cm}} \div 2$
(80 ; 180 ; **160** ; 90)
6. 22:30 is read as (**half past ten p.m** ; thirty past ten a.m
half past nine p.m ; half past ten am)
7. The ODD number after 9 011 is : (9 111 ; 10 001 ; **9 013** ; 10 011)
8. Calculate : $9 \times 20 \times 20 = a$. (2 000 ; 2 600 ; 3 000 ; **3 600**)
9. Which is the correct calculation if you are filling up to the next hundred?
($872 + 8 = 880$; $872 + 18 = 900$; **$872 + 28 = 900$** ; $872 + 38 = 900$)
10. Dad bought 6 DVD's at R25 each. What did he pay?
(R125 ; R135 ; **R150** ; R160)

SECTION B**WHOLE NUMBERS****QUESTION 1****(7)**

Use the digits below to answer the following questions.

7 3 0 8

1. The biggest 4 digit number you can make is: **8 730**
2. The smallest even 4 digit number you can make is: **3 078**
3. Make a 4 digit number where the 8 has the place value of a hundred and the 0 is the tens **7 803 or 3 807**
4. Write the number 7 308 in words **-½ for sp.**
Seven thousand three hundred and eight
5. Round off 8 703 to : the nearest 10 **8 700**
the nearest 100 **8 700**
the nearest 1 000 **9 000**

QUESTION 2**(12)**

Calculate your answers.

You may use any METHOD. Please show all signs and steps clearly.

Vertical or expanded notation or “extended” taught

1. $2\,491 + 1\,645 = a$

$$\begin{array}{r} 2\,491 \\ + 1\,645 \\ \hline 4\,136 \end{array}$$

$$= (2\,000 + 1\,000) + (400 + 600) +$$

$$(90 + 40) + (1 + 5)$$

$$= 3\,000 + 1\,000 + 130 + 6$$

$$= 4\,136$$

2. $9\,050 - 2\,462 = b$

$$\begin{array}{r} 9\,050 \\ - 2\,462 \\ \hline 6\,588 \end{array}$$

3. $4\ 602 + 2\ 195 + 3\ 555 = c$

$$\begin{array}{r} 4\ 602 \\ 2\ 195 \\ +3\ 555 \\ \hline 10\ 352 \end{array}$$

4. $98 \times 40 = d$

$$\begin{aligned} & (90 + 8) \times 40 \\ &= (90 \times 40) + (8 \times 40) \\ &= 3\ 600 + 320 \\ &= 3\ 920 \\ &\text{Or } 90 \times 40 = 3\ 600 \\ &8 \times 40 = +\ 320 \\ &\quad \underline{3\ 920} \end{aligned}$$

5. $125 \times 8 = e$

$$\begin{aligned} & (100 + 20 + 5) \times 8 \\ &= (100 \times 8) + (20 \times 8) + (5 \times 8) \\ &= 800 + 160 + 40 \\ &= 1\ 000 \end{aligned}$$

6. $86 \div 3 = f$

$$\begin{array}{r} 28\ r\ 2 \\ 3\ 86 \\ -\ 6 \\ \hline 26 \\ -\ 24 \\ \hline 2 \end{array}$$

QUESTION 3**PROBLEM SOLVING****(9)****Please read each story sum carefully and then calculate the answers.**

1. Mary re-cycles and collected 1 462 tins on Monday and 3 608 tins on Wednesday. How many tins did she collect altogether to re-cycle?

$$\begin{array}{r} 1\ 462 + 3\ 608 = t \\ 1\ 462 \\ +\ 3\ 608 \\ \hline 5\ 070 \end{array}$$

2. Thabo won R5 000. If he spent R2 805, what does he have left?

$$\begin{array}{r} R5\ 000 - R2\ 805 = R \\ R5\ 000 \\ -\ R2\ 805 \\ \hline R2\ 195 \end{array}$$

3. Auntie Lizzie knits 139 teddies for the children in Hospital. On each teddy she sews 2 blue eyes. How many eyes must Auntie Lizzie buy to complete her teddies?

$$139 \times 2 = e$$

$$100 \times 2 = 200$$

$$30 \times 2 = 60$$

$$9 \times 2 = \underline{+ 18}$$

$$\underline{278}$$

$$\text{or } 139 + 139 = A$$

$$139$$

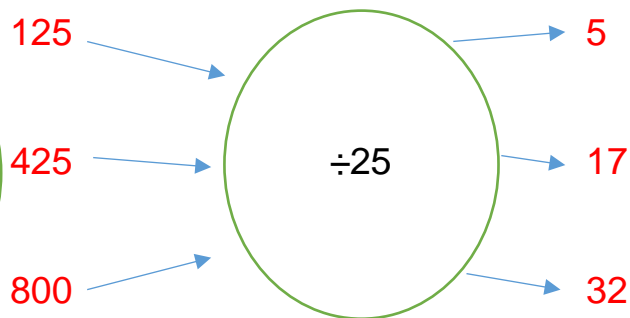
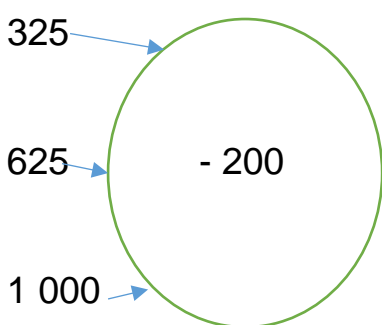
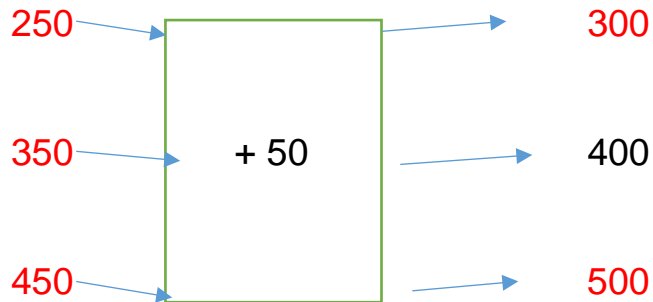
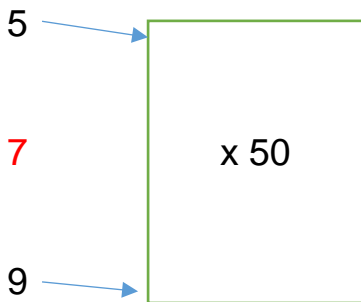
$$\underline{+ 139}$$

$$\underline{278}$$

QUESTION 4

$$(12 \div 2 = 6)$$

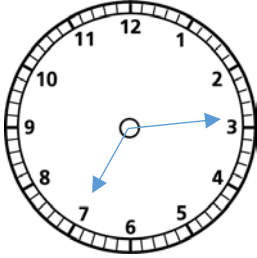
Complete each SPIDER DIAGRAM carefully.



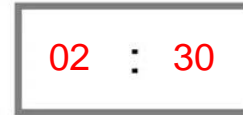
(34)

SECTION C**TIME****QUESTION 1****(4)**

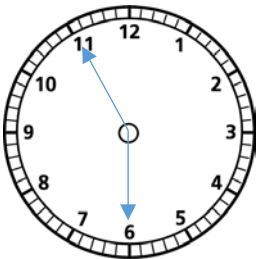
Read and write the times shown on the clocks below.



Quarter past seven



Half past two



Five to six



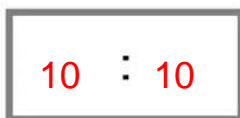
Quarter to five

QUESTION 2

Write in the digital time for:

(2)

Ten past ten a.m.



Twenty to one p.m.

**QUESTION 3****(2)**

Give a number sentence and an answer for problems below.

a. Dad left work at half past five. The drive home took 45 minutes.

What time did Dad arrive home?

(05:30) or $17:30 + 45 = 17:75 = 18:15$ or quarter past six

b. How many minutes did Sarah take to do her homework if she started at 14:10 and ended at 14:55?

 $14:55 - 14:10 = 45$ min or $14:10 + 45 = 14:55$ **(8)**

SECTION D**GEOMETRY****QUESTION 1****(½ marks = 5)**

- a. Name the shapes below and say if they are regular or irregular.
 b. Draw with a green crayon around the **quadrilaterals**.

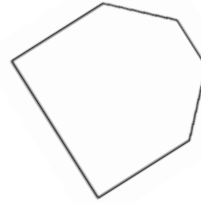
a.



Rectangle

Regular

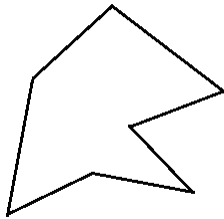
b.



Hexagon

Irregular

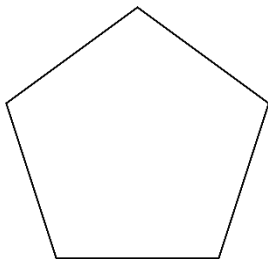
c.



Septagon/Heptagon

Irregular

d.



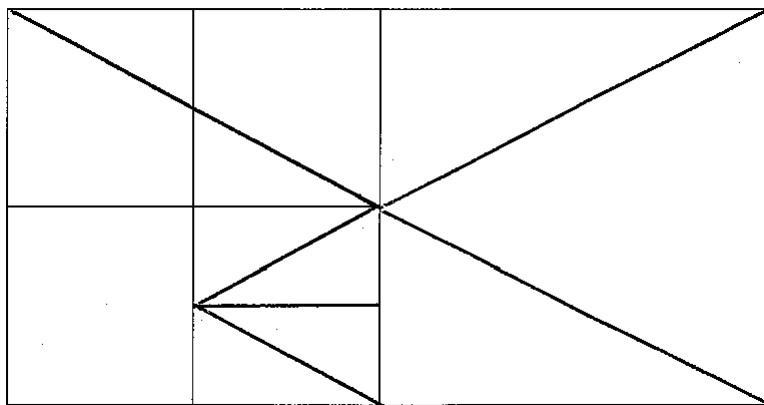
Pentagon

Regular

1 each plus 1 for quadrilate

QUESTION 2**(3)**

How many triangles, squares and rectangles do you see in this design?



There are 13 triangles, 6 squares and 7 rectangles. 1 each (9-12 triangles)
 (½ mark)

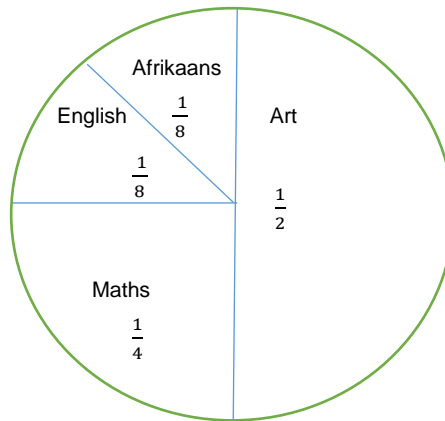
(8)

SECTION E**(5)**

Study the pie chart below carefully. Then answer the questions that follow.

Learners' favourite subjects.

40 Grade 4 learners took part in this survey.



1. What fraction of the learners enjoy art the most?

$\frac{1}{2}$

2. What subject/s is liked the least?

Afrikaans and English

3. What fraction of learners like both English and Afrikaans?

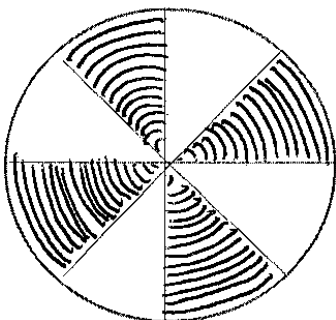
$\frac{1}{8} + \frac{1}{8} + \frac{2}{8}$ or $\frac{1}{4}$

4. Out of the 40 learners, how many choose mathematics as their favourite subject? $40 \div 4 = 10$

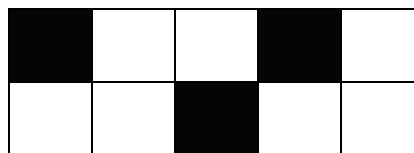
5. How many children enjoy art the most? $\frac{1}{2}$ of 40 = 20

SECTION F**FRACTIONS****QUESTION 1****(4)**

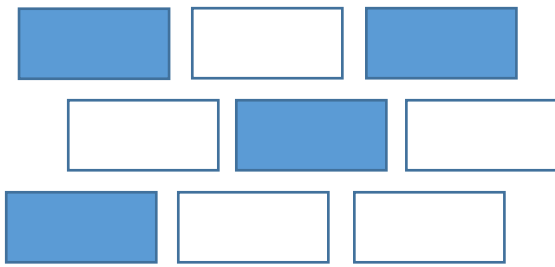
Study the drawings below and say what fraction of each picture is coloured in.



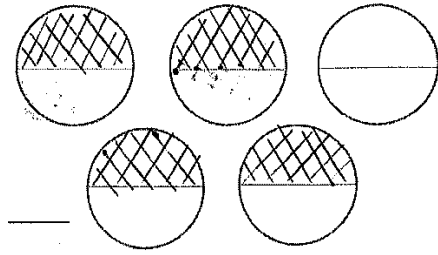
$\frac{4}{8}$ or $\frac{1}{2}$



$\frac{3}{10}$



$$\frac{4}{9}$$



$$\frac{2}{5} \text{ or } \frac{4}{10}$$

QUESTION 2

(3)

Look at the fraction wall and compare the fractions by filling in $<$, $>$ or $=$

1 whole							
$\frac{1}{2}$							
$\frac{1}{4}$							
$\frac{1}{8}$							

$$\frac{1}{2} < \frac{3}{4}$$

$$\frac{2}{4} = \frac{1}{2}$$

$$\frac{5}{8} > \frac{1}{2}$$

$$\frac{2}{4} > \frac{3}{8}$$

$$\frac{4}{8} = \frac{2}{4}$$

$$\frac{3}{4} < \frac{7}{8}$$

QUESTION 3

(3)

Calculate the following: Please show a number sentences with your answer.

a. Dad took $\frac{1}{2}$ an hour to mow the lawn. How long is that in minutes?

$$\frac{1}{2} \text{ of } 60 = 30 \text{ minutes}$$

b. If there were 25 chocolates in a box and you ate $\frac{3}{5}$, how many chocolates did you eat?

$$5 \times \frac{3}{5} \text{ of } 25 = 15$$



(10)

**NOW THAT YOU HAVE COMPLETED YOUR EXAM.....
PLEASE CHECK YOUR CALCULATIONS AND
THAT YOU HAVE ANSWERED EACH QUESTION.
HOPE YOU HAD FUN!!**