TOM NEWBY SCHOOL EXAMINATION

Subject	**Mathematics**	**Examiner**	**Mrs R van Schalkwyk**
Date	**9 June 2014**	**Total marks**	**55**
Session	**1**	**Duration**	**1½ Hours**
Grade	**4**	**Moderator**	**Mrs M Fourie**
Special instructions/ Equipment	**Read each question (twice) very carefully.** **Write all numbers clearly and neatly.** **Show all your calculations.** **Check your work.** **Good luck. Enjoy!** Memo.		

This 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. Up to 10% of the total mark allocation may be deducted for spelling and grammatical errors, except in the case of Language papers, where deductions are made according to a memorandum.

SECTION A – Whole Numbers

Question 1

Use the number 5 876 to answer all the questions below.

a. What would the next even number be? 5 878

b. What is the place value of the 5? 5TH

c. Round the number off to the nearest 100 5 900

d. Double the number 5 876. 11 752

e. Read and write the number in words.
Five thousand eight hundred and seventy six.

f. Expand the number using groups.
$(5 \times 1000) + (8 \times 100) + (7 \times 10) + (6 \times 1)$

g. Decrease the number by 1 004. 4 872

h. Which place value in 5 876 equals 350 when multiplied by 5? 70

1 each (8)

Question 2

Give a calculation (number sentence) and answer for each sentence below:

a) Add 153 to the second multiple of 11.

$(2 \times 11) + 153 = 175$ ✓ ✓

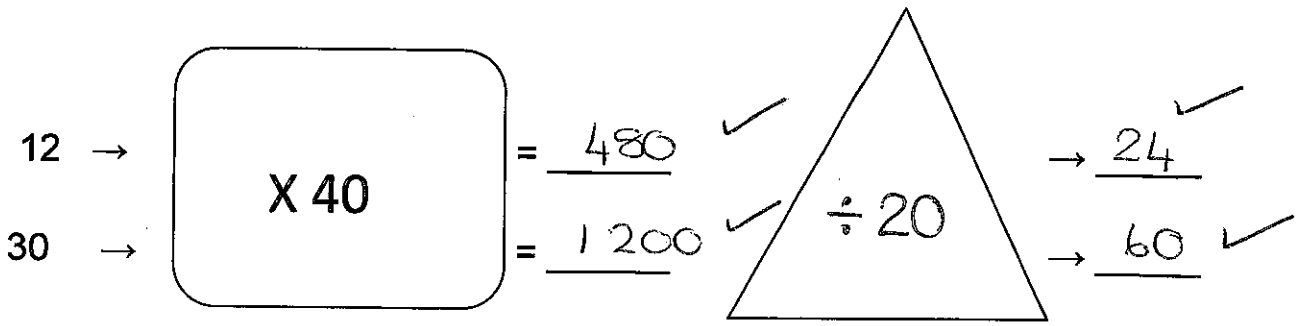
b) Divide the sum of 125 and 75 by 25.

$(125 + 75) \div 25 = 8$ ✓ ✓

2 each. (4)

Question 3

Complete the flow diagram below:



✓ ✓ ✓ ✓

1 each. (4)

Question 4

Calculate the answers: Show ALL YOUR STEPS to the METHOD you use.

4 325 + 1 905 + 3 641 = a

4 325 ✓ or 4 325 + 1 000 + 3 000 = 8 325 ✓
1 905 8 325 + 900 + 600 = 9 825 ✓
+ 3 641 9 825 + 0 + 40 = 9 865 ✓
9 871 ✓ 9 865 + 5 + 1 = 9 871 ✓

(2)

9 050 – 4 149 = b

1 for method
1 for answer.

8 4
9 10 50 ✓
- 4 149
4 901 ✓

(2)

258 x 9 = c

200 x 9 = 1 800
50 x 9 = 450 ✓
8 x 9 = 72 (2)

1 800
450
+ 72
2 322 ✓

78 ÷ 5 = d

70 ÷ 5 = 14 ✓ 14 + 1 r 3 = 15 r 3 ✓
8 ÷ 5 = 1 r 3
or 5 | 78 15 r 3.
25

(2)

TOTAL /24

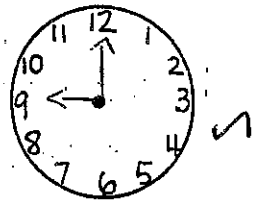
SECTION B - TIME

Question 1

Draw the digtal and analogue time for:

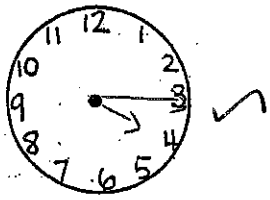
a. 9 o'clock (a.m.)

09 : 00 ✓



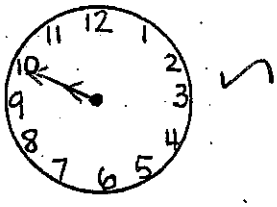
b. quarter past four (p.m.)

16 : 15 ✓



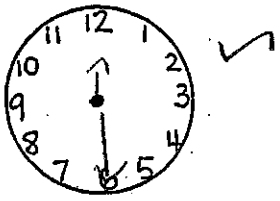
c. ten to ten (a.m.)

09 : 50 ✓



d. Half past twelve (p.m.)

12 : 30 ✓



½ each . (8÷2 = 4)

Question 2

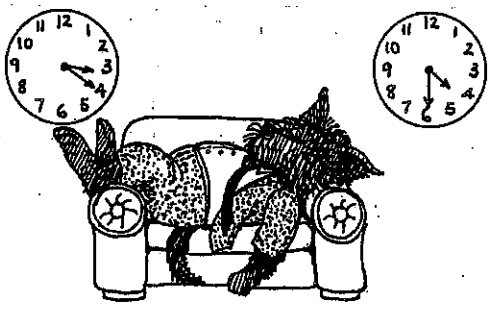
Say how long each animal took to do something:

a.

The clown juggle?

25 minutes

b.



The dog sleep?

1hr and 10 minutes

or 70 minutes (2)

1 each.

TOTAL /6

SECTION C – GRAPHS/DATA HANDLING

Question 1

Use the information to complete:

a. A Tally Table and b. A Pictograph

> In class 5S the children enjoy the following fruit:
> 5 children enjoy apples, 7 children enjoy bananas,
> 4 enjoy pineapple and 8 enjoy strawberries.

a) Tally Table

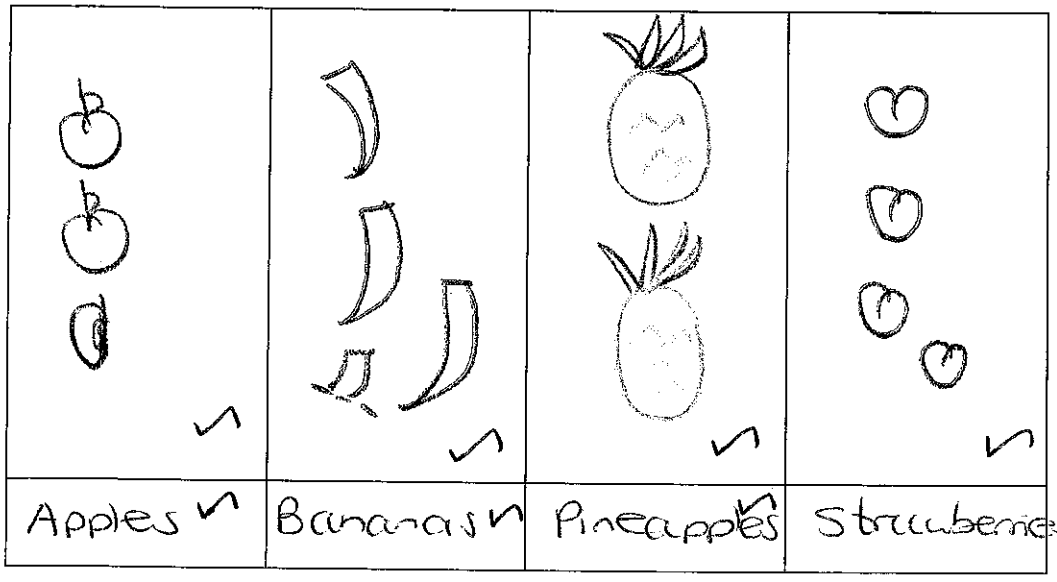
Fruits	Tally
Apples	𝍸 ✓
Bananas	𝍸 | | ✓
Pineapples	𝍸 ✓
Strawberries	𝍸 | | | ✓

(4 ÷ 2 = 2)

b) Pictograph

KEY 1 picture = 2 fruits

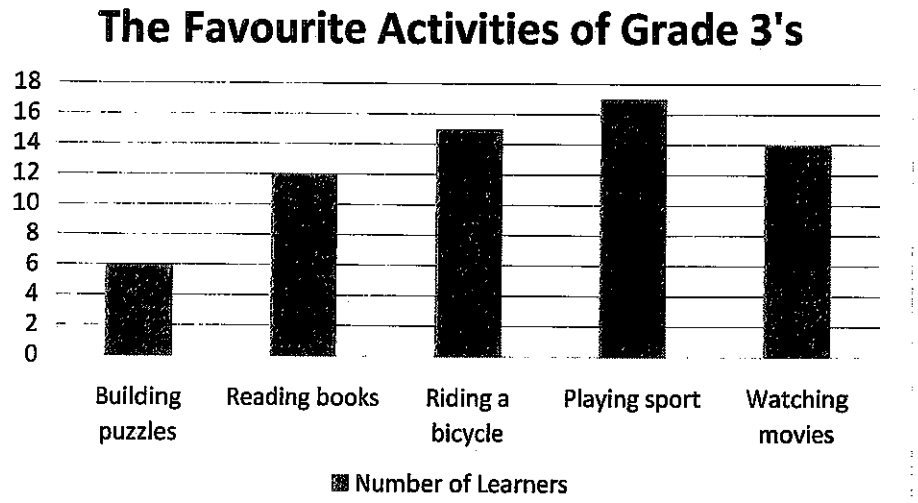
CLASS 5'S Favourite Fruits



(4)

Question 2

Study the graph below and then answer the questions which follow.



a. Which activity is enjoyed the most? Playing sport ✓

b. Which activity is least enjoyed? Building puzzles ✓

c. How many more children enjoy watching movies than reading a Book? 14 - 12 = 2 ✓

d. If each child rides 10km on their bicycles, how far do they travel altogether ? 10km x 15 = 150 km. ✓

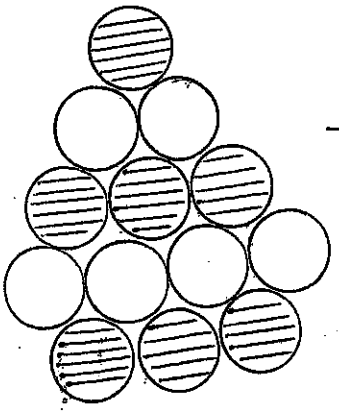
e. The good readers all buy a new book for R12,50. What will all the books cost? ✓
R12,50 x 12 = R150
R12 x 12 = R144
50c x 12 = R6
(4)

TOTAL /10

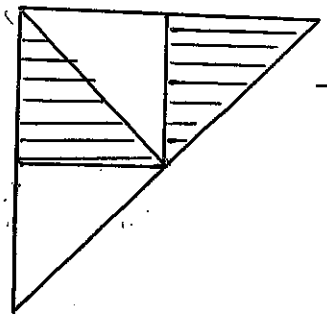
SECTION D - FRACTIONS

Question 1

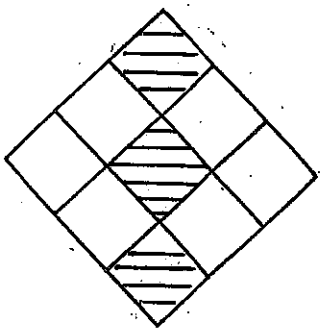
Write the fraction coloured in



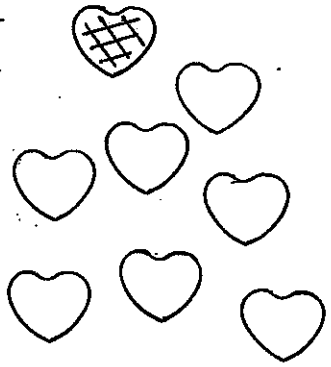
$\frac{7}{13}$ ✓



$\frac{2}{4}$ or $\frac{1}{2}$ ✓



$\frac{3}{9}$ or $\frac{1}{3}$ ✓



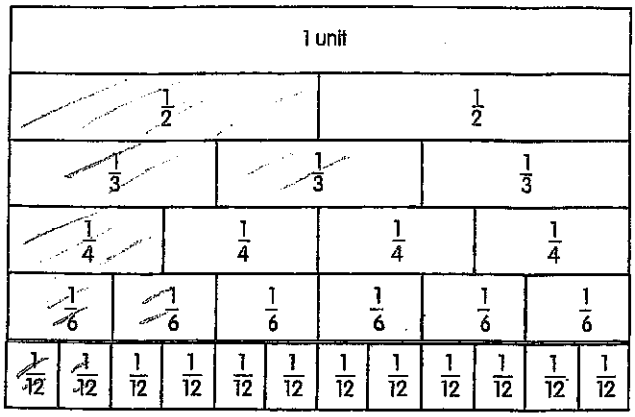
$\frac{1}{8}$ ✓

(2)

$\frac{1}{2}$ each.

Question 2

Compare the fractions using the FRACTION WALL. Then do the activities which follow.



a) Fill in > , < or =.

$\frac{1}{2}$ > $\frac{1}{3}$ ✓ $\frac{2}{3}$ = $\frac{4}{6}$ ✓ $\frac{1}{4}$ > $\frac{1}{12}$ ✓

$\frac{3}{6}$ < $\frac{2}{3}$ ✓ $\frac{7}{12}$ < $\frac{2}{2}$ ✓ $\frac{3}{4}$ = $\frac{9}{12}$ ✓ (3)

b) Arrange the fractions given from smallest to biggest.

$\frac{1}{4}$; $\frac{1}{2}$; $\frac{2}{12}$; $\frac{2}{3}$; $\frac{2}{6}$ $\frac{2}{12}$, $\frac{1}{4}$, $\frac{2}{6}$, $\frac{1}{2}$, $\frac{2}{3}$ ✓ (1)

c) Write down the equivalent fractions for a HALF.

$\frac{1}{2}$ = $\frac{2}{4}$ = $\frac{3}{6}$ = $\frac{6}{12}$ ✓ (1)

TOTAL /7

SECTION E – PROBLEM SOLVING

Remember to show your **open number sentence** and do your **calculation** for each story.

1. In the zoo there are 2 563 different types of birds and twice as many different animals. How many different animals are there in the zoo? (2)

2 563 x 2 = a ✓

2 000 x 2 = 4 000
500 x 2 = 1 000
60 x 2 = 120
3 x 2 = 6

4 000
1 000
120
+ 6
5 126 ✓

2. Mrs Mbali used a quarter of her beads to make a necklace for her friend. If there are 100 beads in her box, how many beads did she use? (2)

100 ÷ 4 = b ✓

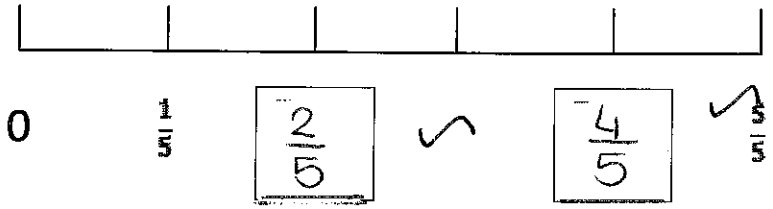
100 ÷ 4 = 25   4 ⟌ 100 = 25 ✓

TOTAL / 4

SECTION E – NUMBER PATTERNS

Complete the patterns below:

1. 1 225 ; 1 250 ; 1 275 ; 1 300 .

2. 

3. 2 580 ; 2 470 ; 2 360 ; 2 250 ; 2 140 .

½ each.

(3)

Balance the equation.

1 943 + 1 057 = 3 000.

(1)

TOTAL /4

Have you checked your work?
Then do the following for fun!