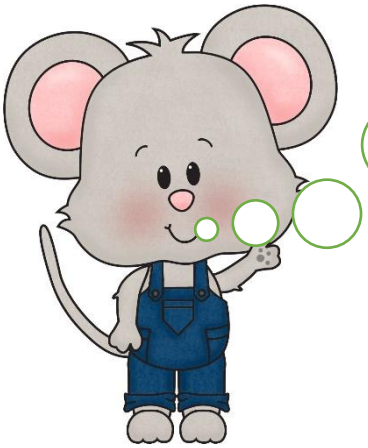
TOM NEWBY SCHOOL EXAMINATION

Subject	**MATHEMATICS**	**Examiner**	**MRS R. VAN SCHALKWYK**
Date	**17 NOVEMBER 2017**	**Total marks**	**75**
Session	**1**	**Duration**	**2 HOUR**
Grade	**4**	**Moderator**	**MRS M. FOURIE**
Special instructions/ Equipment	**Read and answer ALL questions carefully. Good Luck. Think before you INK!**		
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.			

Name:	Surname:	Class:

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 (33)

QUESTION 1

Calculate and fill in the answers.

a. The next odd number after 3 399 is

_____

b. Round 5 865 off to the nearest 100.

_____

c. Round 8 465 off to the nearest 1 000.

_____

d. Complete the number sentence below.

(5 x 25) + _____ = (3 x 30) + 210

e. Expand the number 8 418:

(8 x _____) + (4 x _____) + (1 x _____) + (8 x _____)

f. Double the number 4 905

_____

g. Halve the number 10 952

_____

h. Write as a number: ten thousand two hundred and sixty-five

_____

i. Give the total number value of the underlined digits in 1<u>5</u> 8<u>1</u>9

_____

j. Make the biggest even number using all four digits : 0 5 8 3

_____

k. What are the factors of 12?

_____

l. What is the product of 15 and 20?

_____

(12)

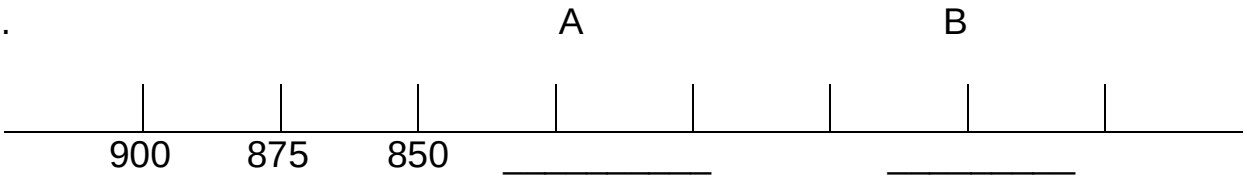
QUESTION 2

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

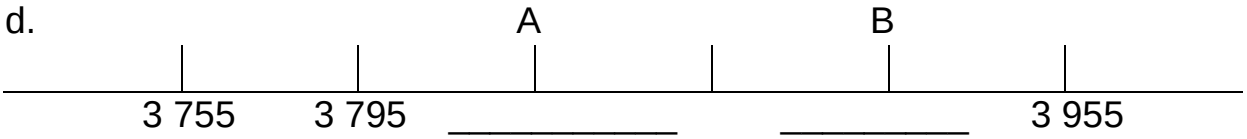
a. 4 590, 4 560, 4 530, _____, _____

b. 7 060, 7 560, 8 060, _____, _____

c.



d.



e. 11 _____ ____ = _____ ____ _____

X 90

÷ 30

40 _____ ____ = _____ ____ _____

(6)

QUESTION 3

Check if the following calculation is correct. Remember you use the opposite operation to check your answer.

a. ACTUAL CALCULATION

$$6\overline{)656}$$

109 r 2

CHECKING

_____

_____

_____

(2)

QUESTION 4

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

6 495 + 3 746 = a

_____

_____

_____

_____ (2)

8 491 – 5 565 = b

_____

_____

_____

_____ (2)

92 x 15 = c

_____

_____

_____

_____ (2)

685 ÷ 7 = d

_____

_____

_____

_____ (3)

QUESTION 5

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

a. Dad buys 3 DVD's for R95,50 each. How much did the DVD's cost?

_____

_____

_____

_____

_____

(3)

SECTION B **TIME AND FRACTIONS** **(14)**

QUESTION 1

Fill in >, < or =

3½ hrs _____ 210 min 4 weeks _____ 30 days

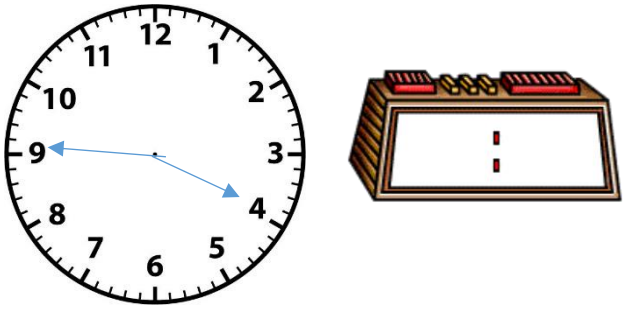
¼ day _____ 4 hrs 18 months _____ 1½ years

(2)

QUESTION 2

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

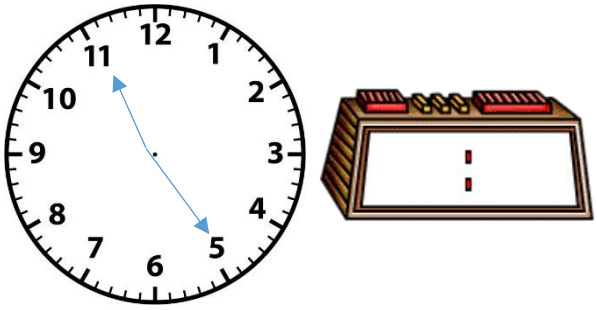
a.



a.m

_____

b.



p.m

_____

(4)

QUESTION 3

Calculate the following answers:

a. A student attends school from 8 a.m to 2 p.m every day. How may hours does a student attend school per week?

_____

_____

_____

_____

b. Peter is 10 years old. How old will he be in the year 2028?

_____

_____

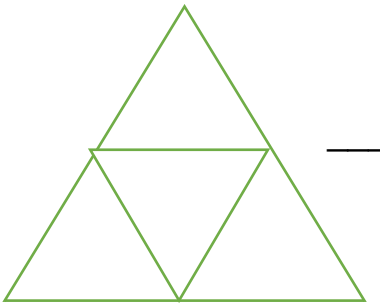
_____

_____

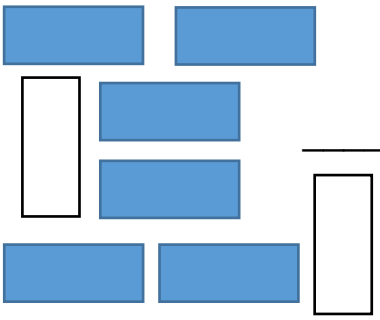
(2)

QUESTION 4

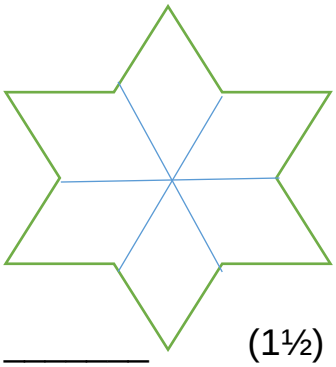
a. What fraction of each diagram is shaded in?



_____



_____



_____

(1½)

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

$\frac{3}{4}$ = _____ $\frac{1}{3}$ = _____ $\frac{1}{2}$ = _____

(1½)

c. Calculate the following fractions.

$\frac{6}{8} + \frac{5}{8}$ = _____ $\frac{7}{12} - \frac{4}{12}$ = _____

(1)

d. It takes ¾ of an hour to fix the leaking roof on our house. How many minutes is that? Please complete the open number sentence and calculation.

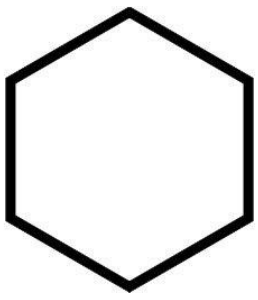
_____ of _____ = _____ min.

(2)

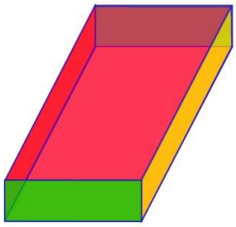
SECTION C GEOMETRY (10)

QUESTION 1

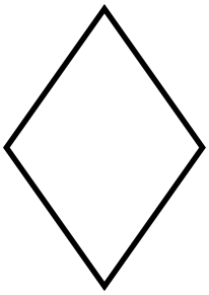
Name the shapes below:



_____



_____



_____

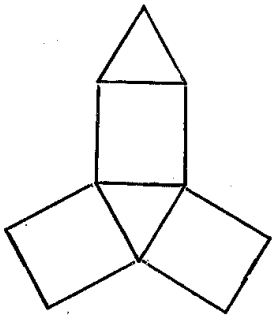
_____

(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)

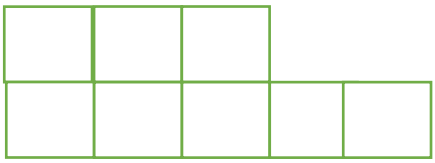
which has (3,4,5) faces and (4,5,6) vertices.

(2)

QUESTION 3

The plan below shows the floor of a hamster cage. What is the PERIMETER and AREA of the hamster cage?

Each block equals 1cm



Perimeter = _____

Area = _____

If the cage is five times bigger in real life, what is its real perimeter?

_____ (2)

QUESTION 4

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

_____ _____ _____ _____

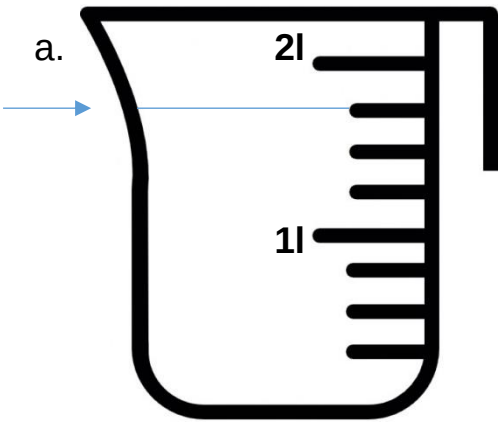
	A	B	C	D	E	F	G	H	I
1									
2									
3									
4									
5									

(2)

SECTION D DECIMAL FRACTIONS (10)

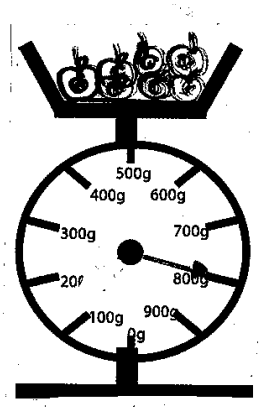
QUESTION 1

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

a. 

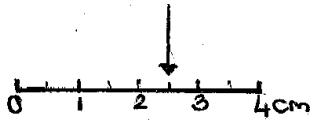
_____ml

_____l

b. 

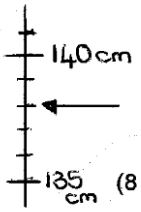
_____g

_____kg

c. 

_____ mm

_____ cm

d. 

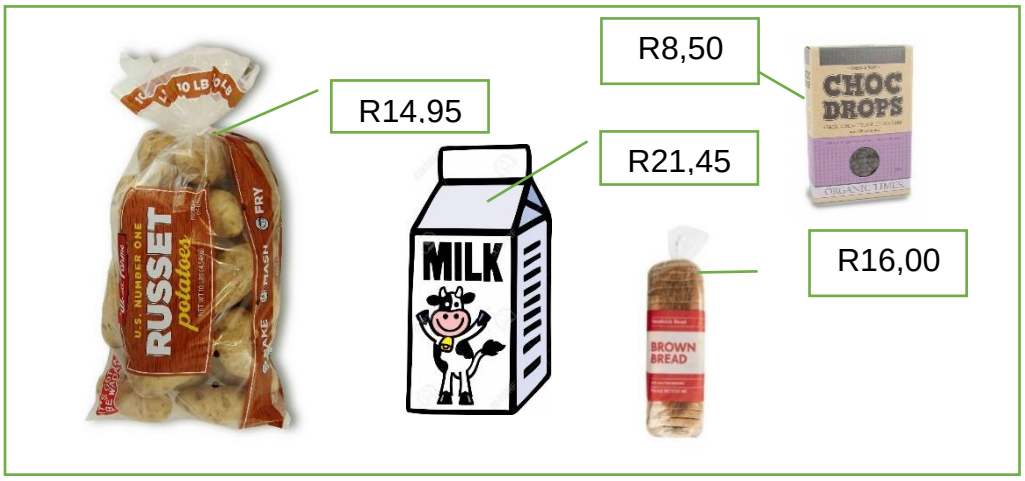
_____cm

_____m

(8 ÷ 2 = 4)

QUESTION 2

Study the shopping basket below and answer the questions which follow:



Ready to shop?

a. What would it cost for two packets of potatoes?

_____

b. What is the total amount you would pay for all the goods in the basket?

_____

c. If you paid with a R200 note. What would your change be?

_____

(3)

QUESTION 3

Study the picture below and complete the table.

Each bottle holds 1 litre of juice.

Capacity of bottles	Volume of bottles	Write volume as a fraction

(3)

SECTION E **DATA HANDLING** **(8)**

QUESTION 1

The table below compares the Grade 3 and Grade 4 learners' favourite games to play at break.

Games	Grade 3	Grade 4
Soccer	15	20
Netball	9	6
Skipping	8	10
Catches	18	12

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

Grade 3 = _____ Grade 4 = _____

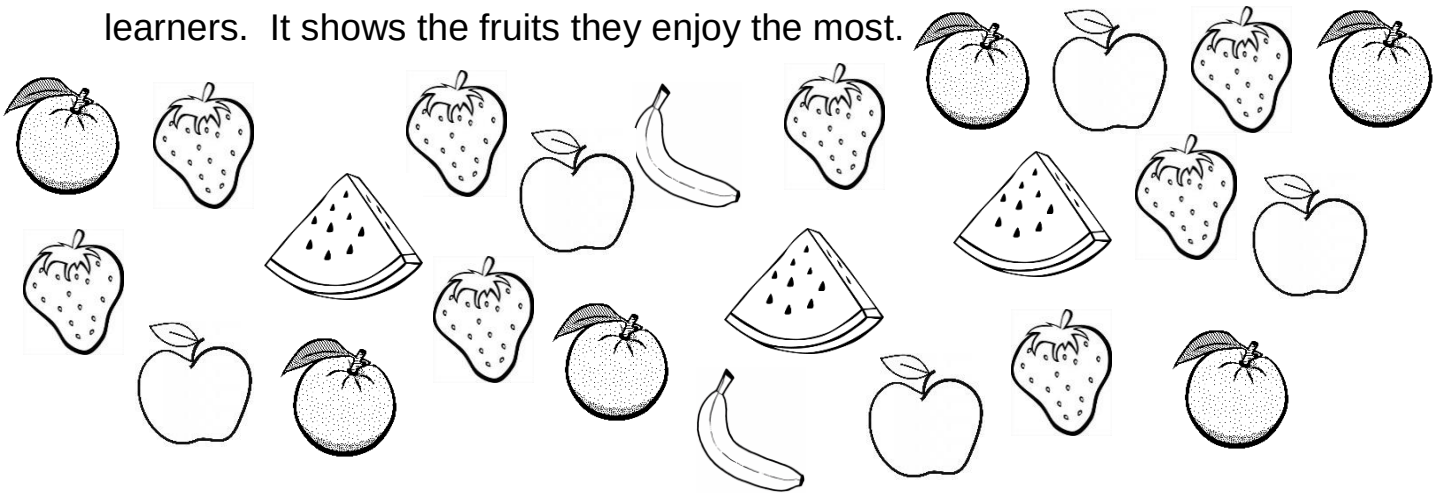
b. Which two games are the least popular in Grade 4?

_____

(2)

QUESTION 2

The picture below shows the results of a survey done amongst Grade 0 learners. It shows the fruits they enjoy the most.



a. Tally the fruits enjoyed. (2½)

FRUIT	TALLY
Strawberries	
Bananas	
Oranges	
Apples	
Watermelons	

b. Which fruit is enjoyed the most?

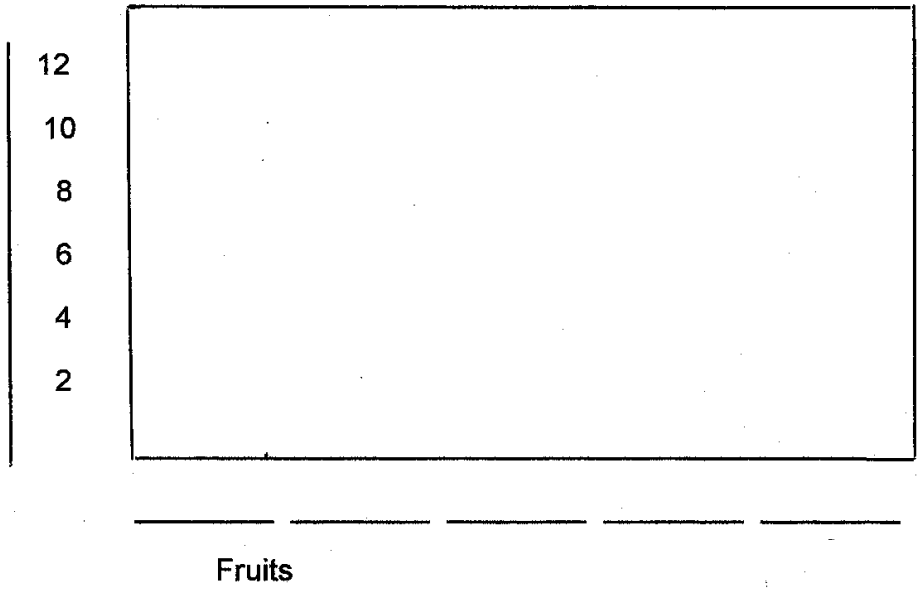
_____

c. Which fruit is the least popular?

_____ (½)

d. Complete the **BAR GRAPH** for the survey done. (6 ÷ 2 = 3)

_____(heading for graph)



TOTAL: 75