



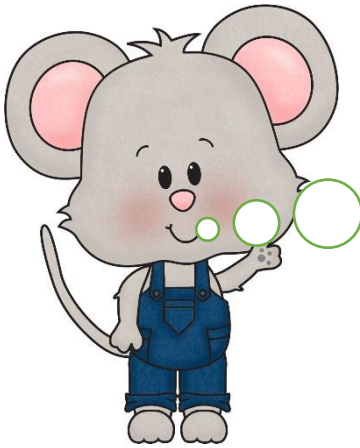
**MEMO**  
**TOM NEWBY SCHOOL EXAMINATION**



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

<b>Name:</b>	<b>Surname:</b>	<b>Class:</b>
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**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

\_\_\_\_\_ **3 401** ✓ \_\_\_\_\_

- b. Round 5 865 off to the nearest 100.

\_\_\_\_\_ **5 900** ✓ \_\_\_\_\_

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

\_\_\_\_\_ **8 000** ✓ \_\_\_\_\_

d. Complete the number sentence below.

$$\begin{array}{r} 125 \\ (5 \times 25) + \end{array} \underline{175} \checkmark \begin{array}{r} 90 \\ 300 \\ = (3 \times 30) + 210 \end{array}$$

e. Expand the number 8 418:

$$(8 \times \underline{1\,000}) + (4 \times \underline{100}) + (1 \times \underline{10}) + (8 \times \underline{1}) \checkmark$$

f. Double the number 4 905

$$\underline{9\,810} \checkmark$$

g. Halve the number 10 952  $5\,000+450+25+1$

$$\underline{5\,476} \checkmark$$

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

$$\underline{10\,265} \checkmark$$

i. Give the total number value of the underlined digits in  $1\underline{5}\,8\underline{1}9$

$$\underline{5\,010} \checkmark$$

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

$$\underline{8\,530} \checkmark$$

k. What are the factors of 12?

$$\underline{1,2,3,4,6,12} \checkmark$$

l. What is the product of 15 and 20?

$$\underline{300} \checkmark$$

(12)



**QUESTION 4**

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

$$6\,495 + 3\,746 = a$$

$$\begin{array}{r} 6\,495 \\ +3\,746 \\ \hline 10\,241 \checkmark \end{array}$$

(2)

$$8\,491 - 5\,565 = b$$

$$\begin{array}{r} 8\,491 \\ -5\,565 \\ \hline 2\,926 \checkmark \end{array}$$

(2)

$$92 \times 15 = c$$

$$\begin{array}{r} 92 \\ \times 15 \\ \hline 450 \checkmark \\ 1840 \checkmark \\ \hline 1380 \checkmark \end{array}$$

(2)

$$685 \div 7 = d$$

$$\begin{array}{r} .97 \text{ r } 6 \checkmark \\ 7 \overline{) 685} \\ \underline{- 63} \phantom{0} \checkmark \\ 455 \\ \underline{- 49} \phantom{0} \checkmark \\ 6 \checkmark \end{array}$$

(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?

$$\begin{array}{l} R95,50 \times 3 = R \text{ or adding } \checkmark \\ R9\,50 \times 3 = R270,00 \\ \underline{X \quad 3} \\ R286,50 \checkmark \end{array}$$

$$\begin{array}{l} R90 \times 3 = R270,00 \\ R 5 \times 3 = 15,00 \\ 50c \times 3 = \underline{1,50} \checkmark \\ R286,50 \checkmark \end{array}$$

(3)

**SECTION B**  
**QUESTION 1**

**TIME AND FRACTIONS**

**(14)**

Fill in >, < or =

$3\frac{1}{2}$  hrs \_\_\_\_ = \_\_\_\_ 210 min

4 weeks \_\_\_\_ < \_\_\_\_ 30 days ✓

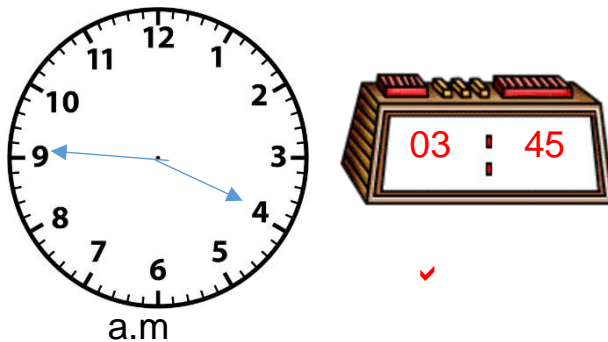
$\frac{1}{4}$  day \_\_\_\_ > \_\_\_\_ 4 hrs

18 months \_\_\_\_ = \_\_\_\_  $1\frac{1}{2}$  years ✓ (2)

**QUESTION 2**

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

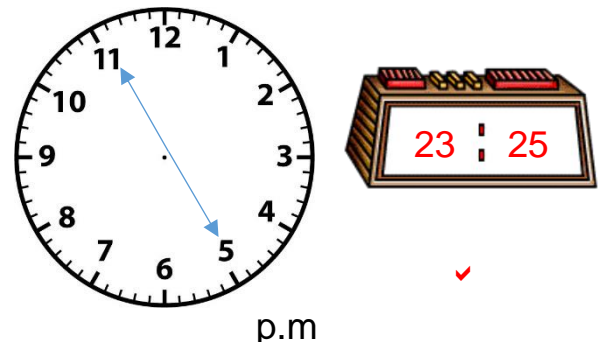
a.



a.m

\_\_\_\_ quarter to 4 ✓ \_\_\_\_

b.



p.m

\_\_\_\_ twenty-five past eleven ✓ \_\_\_\_

(4)

**QUESTION 3**

Calculate the following answers:

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

\_\_\_\_ 30 hrs ✓ \_\_\_\_

$8 \text{ to } 2 = 6 \text{ hrs}$   
 $6 \times 5 = 30$

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

\_\_\_\_ 21 years ✓ \_\_\_\_

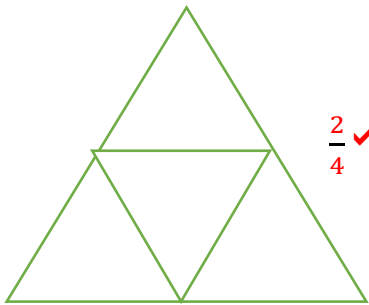
$$\begin{array}{r} 2\ 028 \\ -2\ 017 \\ \hline \quad 11 \end{array}$$

$$\begin{array}{r} 2\ 017 \\ + \quad 11 \\ \hline 2\ 028 \end{array}$$

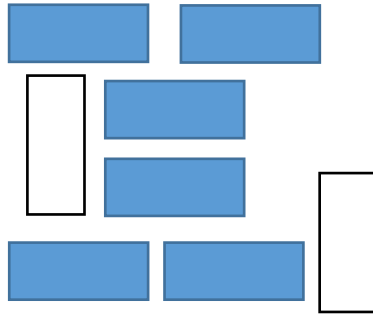
(2)

**QUESTION 4**

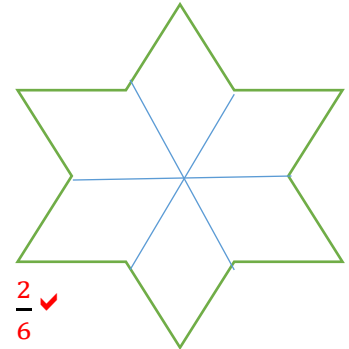
a. What fraction of each diagram is shaded in?



$$\frac{2}{4} \checkmark$$



$$\frac{6}{8} \checkmark$$



$$\frac{2}{6} \checkmark$$

(1½)

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

$$\frac{3}{4} = \frac{6}{8} \checkmark$$

$$\frac{1}{3} = \frac{2}{6} \checkmark$$

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

(1½)

c. Calculate the following fractions.

$$\frac{6}{8} + \frac{5}{8} = \frac{11}{8} \text{ or } 1 \frac{3}{8}$$

$$\frac{7}{12} - \frac{4}{12} = \frac{3}{12} \checkmark$$

(1)

d. It takes  $\frac{3}{4}$  of an hour to fix the leaking roof on our house. How many minutes is that? Please complete the open number sentence and calculation.

$$\frac{3}{4} \text{ of } 60 \text{ min} = 45 \text{ min. } \checkmark \checkmark$$

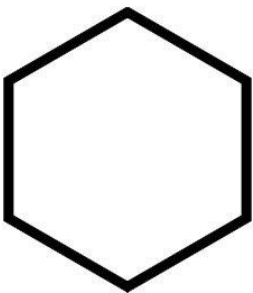
(2)

**SECTION C****GEOMETRY**

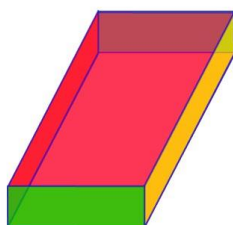
(10)

**QUESTION 1**

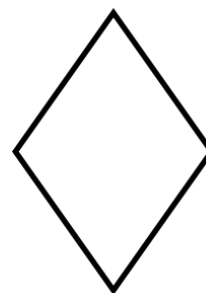
Name the shapes below:



Hexagon ✓



Rectangular prism ✓



Rhombus ✓



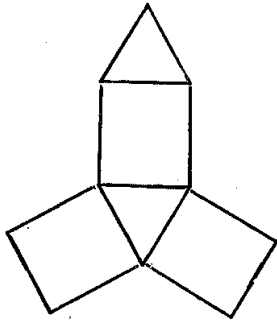
Cylinder ✓

(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 = 14 cm

Area = 8 blocks

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

$5 \times 14 = 70\text{cm}$

**QUESTION 4**

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

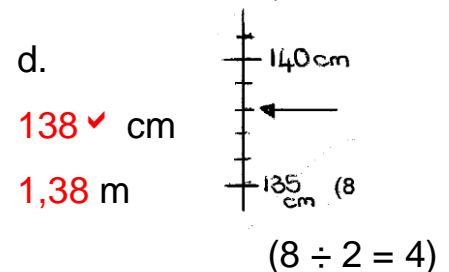
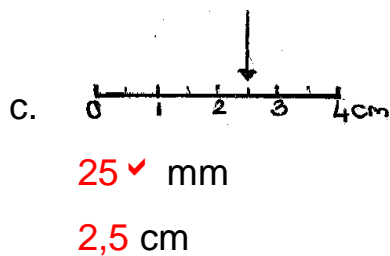
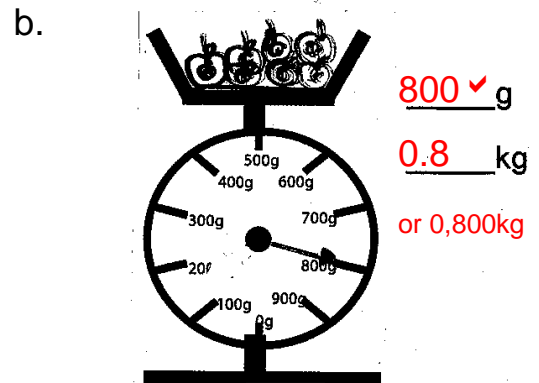
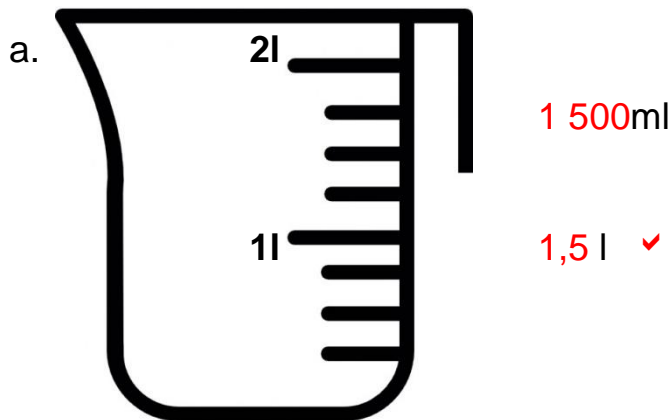
- a. the kite    b. the star    c. the pentagon    d. the trapezium

H4      B4      F5      A1

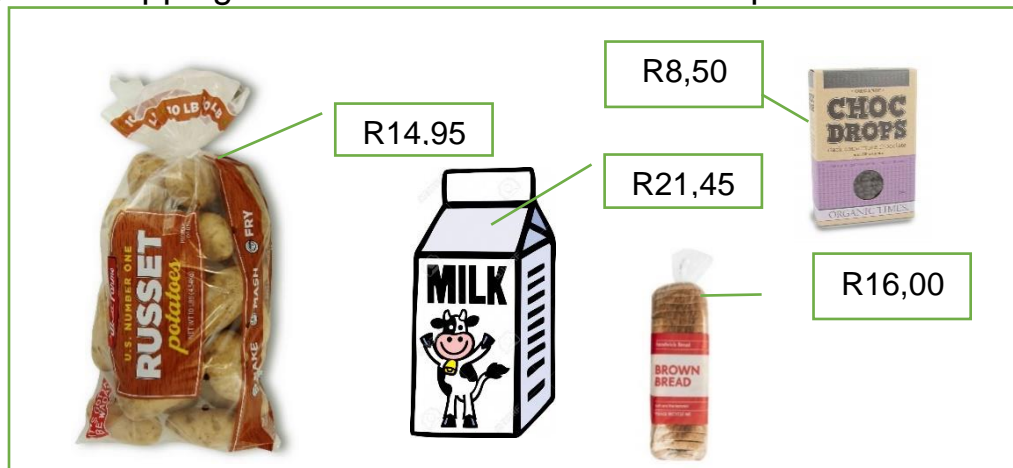
	A	B	C	D	E	F	G	H	I
1									
2									
3									
4									
5									

**QUESTION 1**

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

**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?

$$R14,95 \times 2 = R29,90 \text{ (or add) } \checkmark$$

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

$$R14,95 + R21,45 + R16,00 + R8,50 = R60,90 \checkmark$$

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



$$\begin{array}{r}
 R1290,100 \\
 - \quad 60,90 \quad \checkmark \\
 \hline
 R \quad 139,10
 \end{array}$$

(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
5l ✓	3l 750ml ✓	$3\frac{3}{4}$ l ✓

(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?

$$\text{Grade 3} = 50 \quad \text{Grade 4} = 48 \quad \checkmark$$

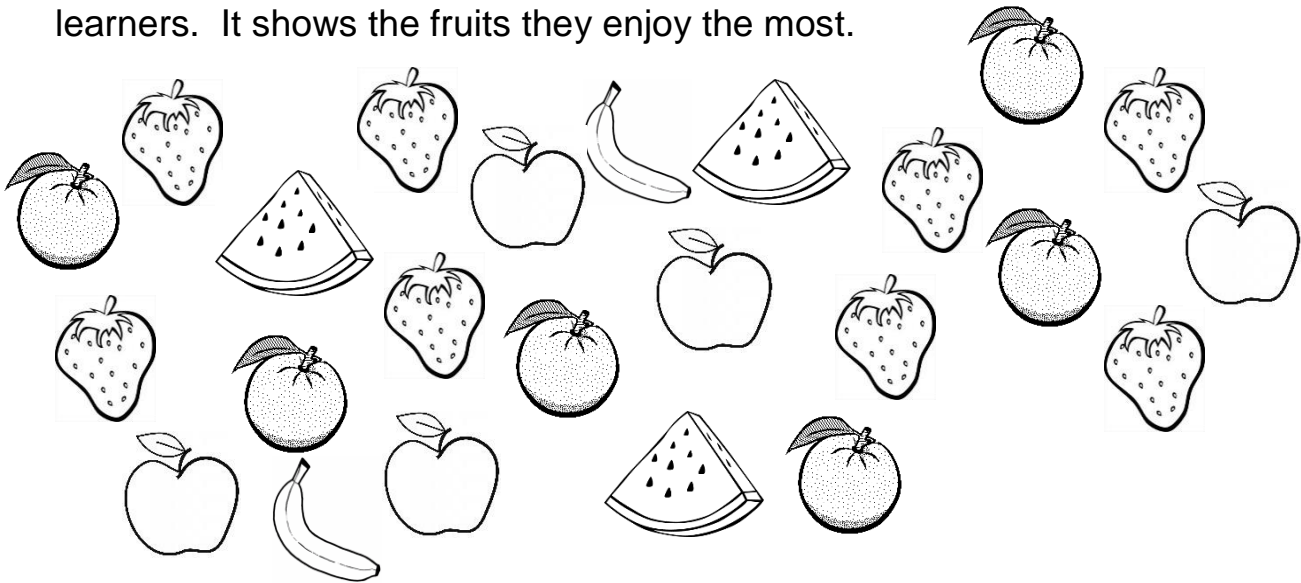
b. Which two games are the least popular in Grade 4?

Netball and Skipping ✓

(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	8
Bananas	2
Oranges	6
Apples	5
Watermelons	3



b. Which fruit is enjoyed the most?

Strawberries

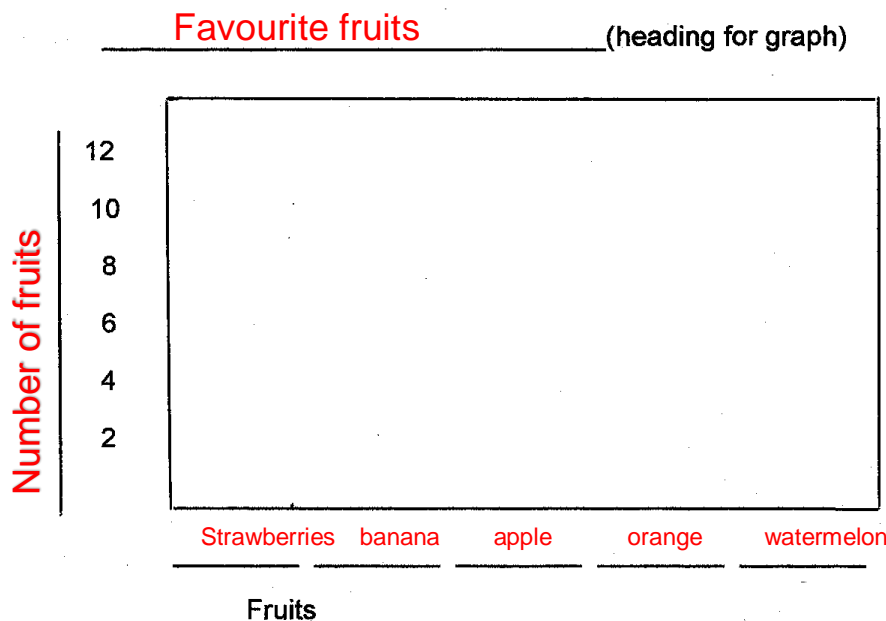
c. Which fruit is the least popular?

Banana

(½)

d. Complete the **BAR GRAPH** for the survey done.

(6 ÷ 2 = 3)



**TOTAL : 75**