



TOM NEWBY SCHOOL
GRADE 6 MATHEMATICS



TERM 4 FORMAL ASSESSMENT

Subject	Maths	Examiner	Ms Ratering, Mrs Singh
Date	November 2022	Total marks	50 marks
Grade	6	Duration	1 hour
		Moderator	Mrs Fourie
Special instructions/ Equipment	<ol style="list-style-type: none"> 1. Write as many details as possible. 2. Read and answer ALL questions thoroughly. 3. Write neatly and legibly in blue pen. 4. Good luck! Think before you INK! 		
<p>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.</p>			

Instructions:

1. This paper consists of 6 questions.
2. Answer all the questions on the question sheet.
3. Take note of the mark allocation per question.
4. Read carefully and answer all the questions neatly and legibly.

Question 1: Mental Maths [10]

1.1 What is the sum of 300, 400, 250 and 350?

(1)

1.2 Besides 1, what is the smallest number to divide into 51?

(1)

1.3 Use BODMAS to solve the following:

(1)

$1+2 \times 3+4 \times 5=$ _____

1.4 Write as one number: $(7 \times 100\,000) + (5 \times 10\,000) + (800) + (3 \text{ tens}) + 5$

_____ (1)

1.5 Fill in brackets in the correct place to make this true: $14 + 30 \div 10 - 7 = 17$. Remember to use **BODMAS**. _____ (1)

1.6 What is the difference between 1 000 000 and 65 000? _____ (1)

1.7 $19\,891 \times \underline{\hspace{1cm}} = 19\,891$ (1)

1.8 $\frac{4}{5}$ of 25 = _____ (1)

1.9 Write this number in digits: One million, three hundred thousand and fifty six .

_____ (1)

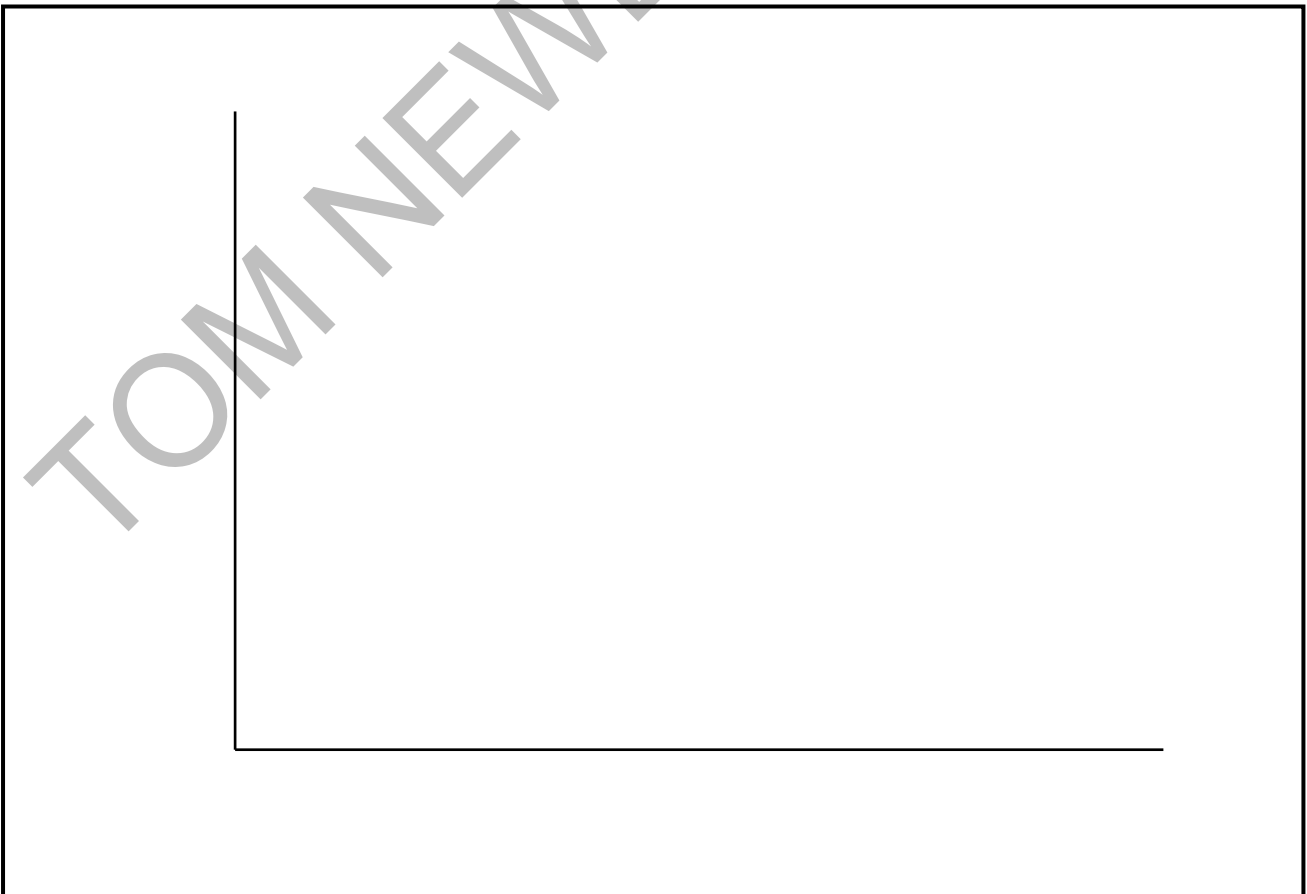
1.10 If 3; 5 and 9 become 9; 25 and 81 respectively, what is the rule?

_____ (1)

Question 2: Data handling [10]

2.1 You surveyed 20 people, asking them what their favourite colour is. The results are as follows: Blue 10; pink 5; green 4; yellow 1; orange 0.

Draw a bar graph to represent this information. Remember to fill in all 6 labels that are found on a bar graph. Underline headings where necessary and space your bars out neatly. (6)



2.2 Here are the shoe sizes of 11 of the Grade 6 learners:

6 5 6 4 5 6 9 2 11 4 3

2.2.1 Order the numbers: _____ (1)

2.2.2 The mode is: _____ (1)

2.2.3 The median is: _____ (1)

2.2.4 The range is: _____ (1)

Question 3: Time [10]



3.1 What time is showing on this clock? Write the time in

12- hour clock time _____ and

24 -hour clock time _____ (2)

3.2 How much longer is it until 12? _____ (1)

3.3 Calculate: 8d 4h – 4d 9h (2)

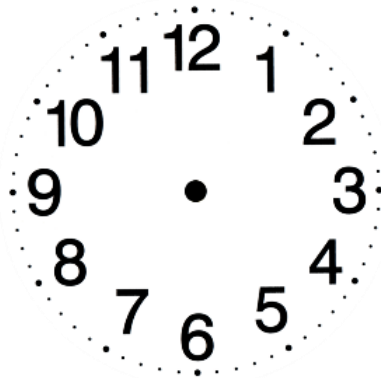


3.4 5d = _____ h (1)

3.5 $3\frac{1}{2}$ y = _____ month (1)

3.6 You start your homework at 3:20 pm and take two and three quarter hours to complete it. At what time do you finish? _____ (1)

3.7 Draw the hands on the clock to show 9:50. (2)



Question 4: Mass [9]

4.1 What mass is indicated on the scale? Answer in kilograms and in grams. (2)



_____ kg
_____ g

4.2 A cable car can carry up to 900 kg. If the average human weighs 80kg, how many people can a cable car carry? _____ (2)

4.3 Calculate: $600\text{kg} - (115\text{kg} \times 4) =$ (2)

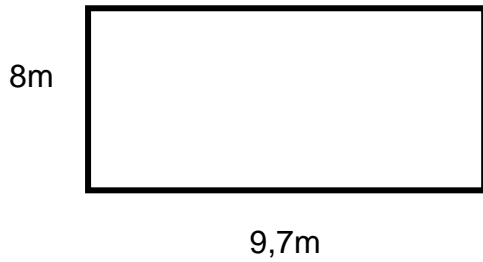
4.4 $3,54\text{kg} = \underline{\hspace{2cm}}\text{g}$ (1)

4.5 $4\frac{1}{2}\text{t} = \underline{\hspace{2cm}}\text{kg}$ (1)

4.6 $3\,008\text{g} = \underline{\hspace{2cm}}\text{kg}$ (1)

Question 5: Perimeter, Area and Volume [6]

5. Work out the perimeter and the area of this shape:

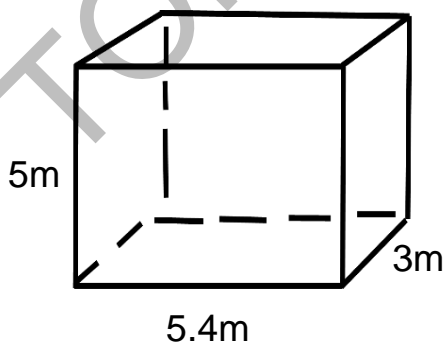


5.1 Perimeter: (2)

5.2 Area: (2)



5.3 Work out the volume of this shape: (2)



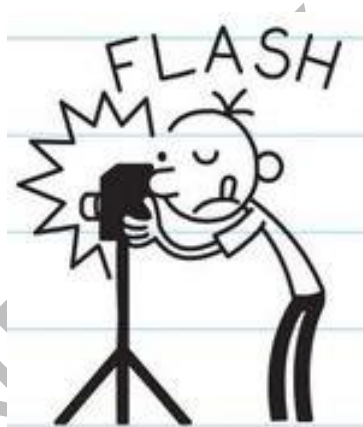
Question 6: Problem Solving [5]

6.1 If there are seven people in a room and they all hug each other once, how many hugs are given? (1)

6.2 How many poles are needed to build a 25m palisade fence with poles 5m apart? Drawing the problem will help you solve it. (2)



6.3 In this picture, find and label an example of an acute angle in blue pen and an example of an obtuse angle in pencil. (2)



TOTAL: 50

PERFORMANCE ANALYSIS

MATHEMATICS GRADE 6
TERM 4 FORMAL ASSESSMENT
 (For Teacher's use only)

NAME: _____ SURNAME: _____ CLASS: _____

QUESTION	1	2	3	4	5	6	TOTAL	%
POSSIBLE MARKS	10	10	10	9	6	5	50	100
LEARNERS' MARKS								
MODERATORS' MARKS								
	MENTAL MATHS	DATA HANDLING	TIME	MASS	PERIMETER, AREA AND VOLUME	PROBLEM SOLVING		