

THERESA NUZZO SCHOOL MARSÀ
HALF YEARLY EXAMINATIONS 2016-2017

MATHEMATICS

MENTAL PAPER

GRADE 5

Teacher's Paper **TIME: 15 minutes**

1. Words written in **bold** should be **emphasised**.

2. Read, **loudly and clearly**, **each question twice in succession**, and then allow 5, to 10, to 20 seconds as the test progresses through the three sections.

3. Access to rough paper for working out answers is **not allowed**. Any working on the answer sheet, however, will not be penalised.

4. The questions should be read out in **English** and **no code-switching/mixing is allowed**. Code-switching is permitted **only** for giving pupils instructions.

5. Before starting the test, read out the following instructions, using **exactly these words**:
 - *I will read out each question twice. Listen carefully both times. You will then have time to work your answer.*

- Se naqràlek kull mistoqsija darbtejn wara xulxin. Ismagħni sew. Wara jkollok il-ħin biex twegibha.*
 - *If you make a mistake, cross out the wrong answer and write the correct answer next to it.*

Jekk tieġu żball f'xi risposta, aqtagħha u ikteb ir-risposta t-tajba ħdejjha.

• You will not be allowed to ask any questions once the test has started.
Ma tistax tistaqsi mistoqsijiet hekk kif jibda t-test.

6. At the end of the test, read out the following instructions, **using exactly these words**:

• The test is finished; put down your pens. It-test spicċa; poġġi l-bajrow fuq il-mejda.

MENTAL PAPER

For the first group of questions, you will have 5 seconds to work out each answer and write it down.'

'Għal dawn il-mistoqsijiet li ġejjin, għandek 5 sekondi biex taħseb u tikteb kull risposta.'

1.	Write the even number: 982, 869, 897?
2.	What are five lots of eight ?
3.	What is the value of 3 in 4,398?
4.	Write sixteen thousand five hundred and six in figures .
5.	How many hours in 2 days?

'For the next group of questions, you will have 10 seconds to work out each answer and write it down.'

'Għal dawn il-mistoqsijiet li ġejjin, għandek 10 sekondi biex taħseb u tikteb kull risposta.'

6.	Add together: fifty five, forty five and eighty.
7.	What is double of one hundred forty-three ?
8.	Write a 0.37 as a fraction .
9.	What must be added to seventy three to make one hundred ?
10.	Round seven hundred and forty seven to the nearest ten .
11.	What is two-fifths of forty five ?
12.	How many millimetres in 53cm ?
13.	What is the perimeter of a square with sides measuring 20cm each ?
14.	Which of the following numbers is a multiple of 8 : 18, 28, 64, 44 ?
15.	If $37 \times 68 = 2516$, what is the value of 2516 divided by 68 ?

'For this group of questions, you will have 20 seconds to work out each answer and write it down.'

'Għal dawn il-mistoqsijiet li gějjin, għandek 20 sekonda biex taħseb u tikteb kull risposta.'

16	When a number is divided by 7 , the answer is three remainder four . What is the number?
17	Halve two hundred twenty , then halve the result again .
18	The area of a square is sixty four cm² . What is the length of each side ?
19	How many hours is it from seven pm today to five am tomorrow ?
20	Jane used half a kilogram from a 2kg bag of sugar. How many grams of sugar are left in the bag?



THERESA NUZZO SCHOOL MARSA
HALF YEARLY EXAMINATIONS 2016-2017
MATHEMATICS
Grade 5

Name: _____ **Register No** _____

Class _____

Mental Paper **Time: 20 minutes**

Mark

Written Paper **Time 1hour 30 minutes**

Mark

Total Mark

MATHEMATICS Mental Paper Time: 20min GRADE 5

1	
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2	
---	--

3	
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4	
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5	hours
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6	
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7	
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8	
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9	
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10	
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11	
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12	mm
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13	cm
----	----

14	
----	--

15	
----	--

16	
----	--

17	
----	--

18	cm
----	----

19	hours
----	-------


20	grams
----	-------

Marks' Scheme

Nos. 1 a - j	$10 \times 2 = 20$
2 - 7	$6 \times 4 = 24$
8 - 13	$6 \times 6 = 36$
<u>TOTAL</u>	<u>80</u>

1. Complete:

a.	$67 + \square = 100$	ii) $100 - 34 = \square$
b.	$63 \div 9 = \square$	ii) $42 \div 7 = \square$
c.	$8 \times \square = 72$	ii) $36 \div \square = 9$
d.	i) The value of 2 in 156 289 is <input type="text"/>	
	ii) Which digit is in the thousand place in 51 432 ? <input type="text"/>	
e.	Circle the odd numbers : 876, 985, 284, 883	
f.	$122 \text{ minutes} = \square \text{ hours}$	$\square \text{ minutes.}$

9.	i) Change to decimal fractions $\frac{19}{100} =$ <input type="text"/> ii) Change to fraction $0.08 =$ <input type="text"/>					
h.	Complete the sequence: 900, 850, 800, <input type="text"/> <input type="text"/>					
i.	Circle the numbers that give 600 when rounded to the nearest 100. <div style="border: 2px solid black; border-radius: 15px; padding: 10px; width: fit-content; margin: 10px auto;"> <table style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 5px 20px;">620</td> <td style="padding: 5px 20px;">590</td> </tr> <tr> <td style="padding: 5px 20px;">660</td> <td style="padding: 5px 20px;">650</td> </tr> </table> </div>	620	590	660	650	
620	590					
660	650					
j.	This is a doubling sequence. Fill in: <div style="text-align: center; margin: 10px 0;"> <i>double</i> <i>double</i> <i>double</i> <i>double</i>  </div> <table style="width: 100%; text-align: center; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; width: 40px; height: 40px; margin: 5px;"></td> <td style="border: 1px solid black; width: 40px; height: 40px; margin: 5px; text-align: center;">16</td> <td style="border: 1px solid black; width: 40px; height: 40px; margin: 5px; text-align: center;">32</td> <td style="border: 1px solid black; width: 40px; height: 40px; margin: 5px;"></td> <td style="border: 1px solid black; width: 40px; height: 40px; margin: 5px; text-align: center;">128</td> </tr> </table>		16	32		128
	16	32		128		

(20 arks)

2) Fill in:

a. $35 \times 10 =$ <input type="text"/>	b. $3500 \div 10 =$ <input type="text"/>
c. $7500 \div$ <input type="text"/> $= 750$	d. $450 \times$ <input type="text"/> $= 45000$

(4 marks)

3a) Write a fraction **smaller than** $\frac{1}{2}$ →

b) Fill in the box: $\frac{3}{4} = \frac{\square}{8}$

c) Change into an **improper fraction**: $3\frac{5}{7} = \square$

d) Change into a **mixed number**: $\frac{47}{5} = \square$



(4 marks)

4) Bob has two different sizes of rectangle.



He makes this pattern with them.



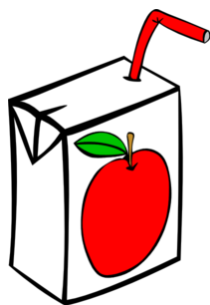
Calculate the **lengths A and B**.

Length A = _____ cm

Length B = _____ cm

(4 marks)

5) Jane has a carton of apple juice containing **170 ml** and a bottle of juice containing $\frac{1}{4}$ l.



170 ml

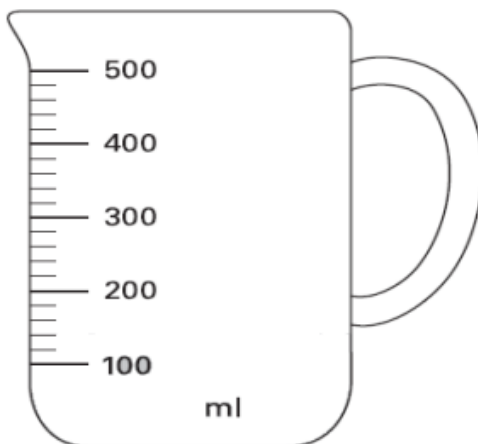


$\frac{1}{4}$ l.

a) How many *ml* of juice does Jane have in the **two containers**?

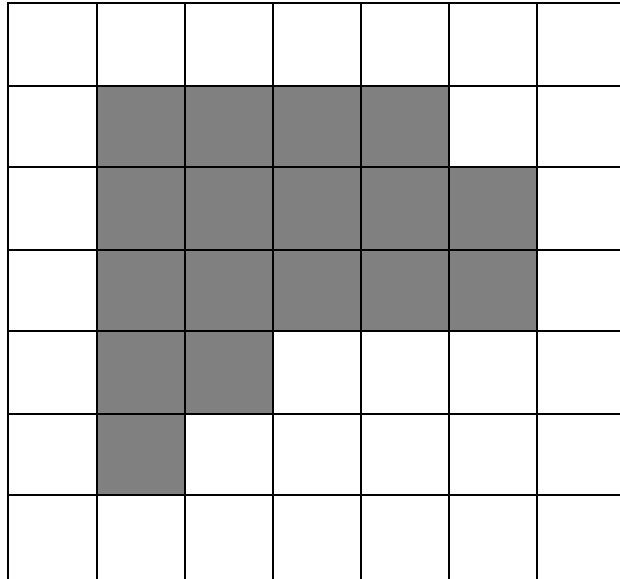
_____ ml

b) She **empties** them **both** in this jug. **Draw an arrow** to show the **level** of the mixture in the jug.



(4 marks)

6) Here is a shaded shape on a grid. Each square is 1cm^2



a) What is the **perimeter** of the shape?

_____ cm

b) What is the **area** of the shaded

shape? _____ cm^2

c) Shade in **more squares** to make a square of **area 25cm^2**

(4 marks)

7a) Put the following numbers in **ascending order**.

0.7 0.45 0.25 0.4 0.2

Ascending Order:

b) Ann runs **7 km** on Monday, **6.04 km** on Tuesday and

9.3 km on Wednesday.

Find the **total** of her runs.

 km

(4 marks)

8) There are **60 sweets** in a bag.

$\frac{1}{3}$ of the sweets are **red**, $\frac{2}{5}$ of them are **yellow** and the **rest** are **green**.



a) How many **red** sweets are there?

red sweets

b) How many **yellow** sweets are there?

yellow sweets

c) How many **green** sweets are there?

green sweets

d) If the cost of **one bag** of sweets is **€1.20**, what is the cost of **1 sweet**?

c

e) What is the **change** from **€10** if **6 bags** of **sweets** are bought?

€

(6 marks)

9) Below are the **opening times** of the Coffee Shop.



Monday to Friday	8:00 am to 6:00 pm
Saturday	9:00 am to 9:00 pm
Sunday	10:30 am to 10:00 pm

a) For **how long**, in **hours**, is the Coffee Shop open on **Mondays**?

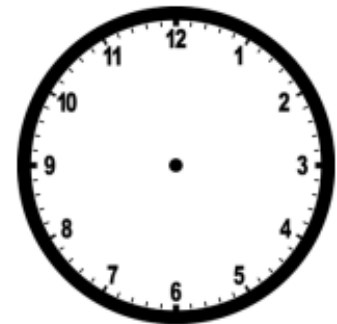
____ hours

b) Tick (X) the day on which the Coffee Shop is open for the **longest time**?
Tuesday Saturday Sunday

c) **Fill in:**

On **Wednesday** the Coffee Shop opens ____ **minutes earlier** than on **Saturday**.

d) Maria went to the Coffee Shop on **Wednesday**.
She was there at **8:25am**.



i) **Show** this time on the clock face.

ii) If Maria **left** the Coffee Shop at **9:40am**. How long did she stay at the Coffee Shop?

____ hr ____ min

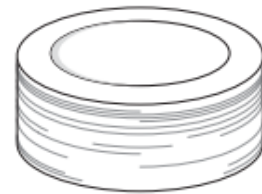
(6 marks)

10a) Plastic cups are sold in **packs of 8**. Jennifer needs **97 cups**.
How many **packs** does she need to buy?



_____ packs

b) There are **36 paper plates** in a **pack**.
Jennifer buys **4 packs**. She uses **95 plates**.
How many **plates** are left?



_____ plates

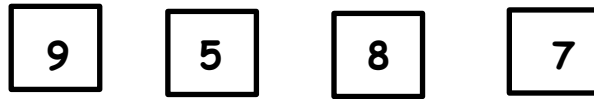
c) Jennifer also bought **6 packs of forks**.
Each pack contained **20 forks**.
4 forks were left **unused**.
How many forks were used?



_____ forks

(6 marks)

- 11a) Use the number cards below to create 3-digit numbers.
A card can be used once in every 3-digit number you write.



- i) Write the **smallest 3-digit even number**.

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- ii) Write the **largest 3-digit odd number**

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- 11b) Fill in the blanks:

$$15 \times 16 = \square \times 8 = \square$$

- 11c) Write **one number** from each circle to make this calculation correct.

The diagram shows three circles, each containing two numbers. Arrows point from each circle to a corresponding box in the equation below.

- Circle 1: 2, 3, 4
- Circle 2: 9, 12, 10
- Circle 3: 28, 18, 48

The equation is: $\square \times \square - \square = 30$

(6 marks)

12a) Complete:

i) $2\text{kg } 450\text{g} = \underline{\hspace{2cm}} \text{g}$

b) Put the weights in **order of size**. (**lightest first**)

3kg

245g

3150g

2kg 45g

lightest

heaviest

c) Kate buys some oranges. She puts the oranges in a basket.
The **weight** of the **empty basket** is **200 g**.
The **weight** of the **basket and the oranges** is **3 kg**.
What is the **weight** of the **oranges**?



kg g

d) Mary and Claire also buy oranges. Mary buys **2kg 150g**. Claire buys **500g** of oranges **more** than Mary. What is the **total weight** of apples **Mary and Claire** buy **altogether**?

kg g

(6 marks)

13. Look at the following calendar.

2017 MARCH						
SUN	MON	TUE	WED	THU	FRI	SAT
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

- a) **31st March** is a **Public Holiday**. It falls on a _____
- b) The **first day** of **April** falls on a _____ while the **last day** of **February** falls on a _____.
- c) There are _____ **Saturdays** in **March 2017**.
- e) Paul's birthday falls on the **second Friday** of the month. Write the **date** of his birthday _____.
- e) We have **Parents' Day** on the **17th of March** so children do not attend school. How many **school days** are there in **March**? _____.

_____ (6 marks)

THE END