

DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCATION  
Directorate for Curriculum Management and eLearning  
Educational Assessment Unit

**Annual Examinations for Primary Schools 2012**

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**YEAR 5                      MATHEMATICS MENTAL PAPER                      TIME: 15 minutes**

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**Teacher's Paper**

**Guidelines for the conduct of the Mathematics Examination – Mental Paper**

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 naqralk 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 tieħu żball f'xi risposta, aqtagħha u iktib ir-risposta t-tajba hdejha.*
  - *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 spiċċa; poġġi l-bajrow fuq il-mejda.*

**MENTAL PAPER**

*‘For this 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 tahseb u tikteb kull risposta.’*

<b>1</b>	Write the number <b>five thousand, six hundred and thirty two</b> in <b>figures</b> .
<b>2</b>	Which of these numbers is not a <b>factor</b> of <b>sixteen</b> : <b>two, three, four</b> or <b>eight</b> ?
<b>3</b>	How many <b>months</b> are there in a <b>year</b> ?
<b>4</b>	How many <b>lines of symmetry</b> does a <b>square</b> have?
<b>5</b>	Write the next number in the sequence: <b>eighty one, seventy two, sixty three, fifty four</b> .

*'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 tahseb u tikteb kull risposta.'*

<b>6</b>	What are <b>eight lots of nine</b> ?
<b>7</b>	What is <b>half of one hundred and sixteen</b> ?
<b>8</b>	Write a <b>fraction</b> which is <b>equal to one half</b> .
<b>9</b>	What must be <b>added to sixty four</b> to make a <b>hundred</b> ?
<b>10</b>	Round <b>five thousand and seventy five</b> to the <b>nearest hundred</b> .
<b>11</b>	A <b>square</b> has a <b>perimeter</b> of <b>thirty six centimetres</b> . What is the <b>length of one of its sides</b> ?
<b>12</b>	<b>Multiply sixty three</b> by <b>hundred</b> .
<b>13</b>	Which is the <b>smallest</b> of these numbers: <b>two point three, two point zero three</b> or <b>zero point two three</b> ?
<b>14</b>	What is <b>forty four</b> more than <b>two hundred and forty five</b> ?
<b>15</b>	How much more than <b>sixty two</b> is <b>three hundred and fifty</b> ?

*‘For this group of questions, you will have 20 seconds to work out an answer and write it down.’*

*‘Għal dawn il-mistoqsijiet li ġejjin, għandek 20 sekonda biex taħseb u tikteb kull risposta.’*

16	Sam thinks of a number. He <b>multiplies</b> his number by <b>six</b> and the <b>answer</b> is <b>seventy two</b> . <b>What is his number?</b>
17	If you add <b>twelve</b> , <b>thirteen</b> and <b>fifteen</b> , will the total be <b>even</b> or <b>odd</b> ?
18	Mariah drinks <b>one thousand, seven hundred and fifty millilitres</b> from a <b>two litre</b> bottle of water. How many litres of water are <b>left</b> in the bottle?
19	What is <b>forty five</b> divided by <b>four</b> ? Write the remainder as a <b>fraction</b> .
20	Paula has <b>two coins of one euro each</b> . She spends <b>one euro and twenty cent</b> on a new pen. How much <b>change</b> does she have?

**END OF MENTAL PAPER**

**Annual Examinations for Primary Schools 2012**

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**YEAR 5**

**MATHEMATICS MENTAL PAPER**

**TIME: 15 minutes**

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**Name:** \_\_\_\_\_

**Class:** \_\_\_\_\_

### **Instructions to Candidates**

- The teacher will read each question twice. Listen carefully to the teacher both times. You will then have time to work your answer.
- If you make a mistake, cross out the wrong answer and write the correct answer next to it.
- You will not be allowed to ask any questions once the test has started.
- This paper carries a total of 20 marks.

**MENTAL PAPER  
ANSWER SHEET**

1.	
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2.	
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3.	<b>months</b>
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4.	<b>lines</b>
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5.	
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6.	
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7.	
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8.	
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9.	
----	--

10.	
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11.  cm

12.

13.

14.

15.

16.

17.

18.  litres

19.

20.  cent

YEAR 5

MATHEMATICS  
WRITTEN PAPER

TIME: 1 h 15 min

Name: \_\_\_\_\_

Class: \_\_\_\_\_

1. Fill in:

a)	$62 + \square = 100$
b)	$905 - 399 = \square$
c)	$408 \div 4 = \square$
d)	$8 \times 25 = (8 \times \square) + (8 \times \square)$
e)	$\frac{3}{4}$ litre $>$ $\square$ ml
f)	5:40 pm, 5:55 pm, $\square$ : $\square$ pm, $\square$ : $\square$ pm, 6:40 pm
g)	$\square \times 10 = 725$
h)	Round 47.61 to the nearest whole number. $\square$
i)	$\square - 3.37 \text{ m} = 7.54 \text{ m}$
j)	$\frac{17}{4} = \square \frac{\square}{\square}$



2. Which numbers match the clues?

*Note: Each number can only be used once.*

**9305**

**1227**

**4628**

**3396**

**4268**

a) This is **equal** to  $409 \times 3$ .

**1227**

b) This number is 10 **more than** 9295.

c) This number is **exactly divisible by** 6.

d) The **tens digit** is **three times** the **hundreds digit**.

e) This number is 89 **multiplied** by 52.

Name: \_\_\_\_\_

Class: \_\_\_\_\_

3. These are the prices of items that are on sale.



<b>cap</b>
was €18 now just €9



<b>shirt</b>
was €22.50 now just €10.25



<b>jacket</b>
was €34.40 now just €18.20



<b>trainers</b>
was €27.50 now just €12.75



<b>jeans</b>
now just €14.75

Fill in the blanks with the items that are on sale.

- a) The \_\_\_\_\_ is **exactly half the price** now.
- b) The \_\_\_\_\_ now costs **a little more than half the price**.
- c) The \_\_\_\_\_ and the \_\_\_\_\_ now cost **a little less than half the price**.
- d) The **pair of jeans** now costs €14.75. Before, it was **double the price**.  
How much did it cost **before** the sale?

€ ____ . ____
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4. **Match.** (The first one has been done for you.)

**example** The **capacity of a teaspoon** is about

- a) A **new born baby** weighs about
- b) A **kettle** holds about
- c) The **weight of an apple** is about
- d) The **capacity of a mug** is about

- |            |
|------------|
| 0.15 kg    |
| 3 kg       |
| 250 ml     |
| 1.5 litres |
| 5 ml       |

5. a) I am a **regular pentagon**.  
**One of my sides** is 6 cm long.  
What is my **Perimeter**?

\_\_\_\_\_ cm

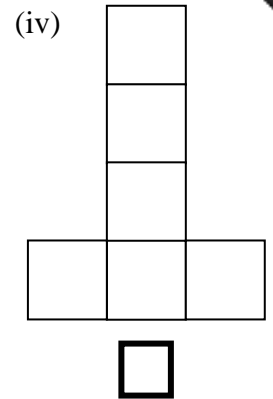
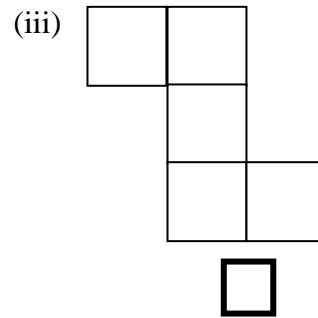
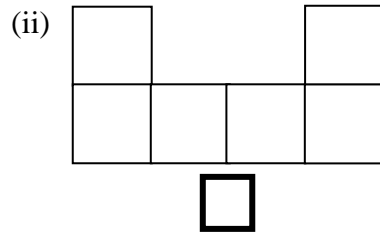
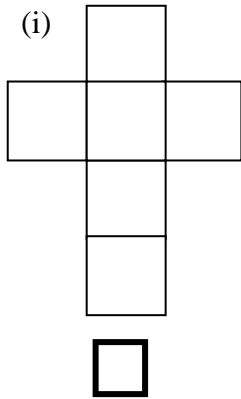
- b) I am a **rectangle**.  
My **area** is  $36 \text{ cm}^2$ . My **length** is **4 times my width**.  
What is my **length**?

\_\_\_\_\_ cm

Name: \_\_\_\_\_

Class: \_\_\_\_\_

6. a) **Tick** (✓) the nets that can be folded to make a **cube**.



b) **Match.**

**cube**

- 3-D shape
- it has 3 faces and 2 edges
- it has no vertices

**isosceles triangle**

- 3-D shape
- all its faces are squares
- it has 12 edges

**cylinder**

- 2-D shape
- all 3 sides are equal
- it has 3 lines of symmetry

**equilateral triangle**

- 2-D shape
- 2 of its sides are equal
- it has 1 line of symmetry

7. Complete.

a) Write these in ascending order (*smallest first*).

<b>0.45</b>	$\frac{1}{2}$	four tenths
□	□	□

b) Donna spends  $\frac{1}{3}$  of the day sleeping.

Her sister Fiona spends  $\frac{1}{4}$  of the day sleeping.

(i) Who sleeps the most? Tick (✓) the correct answer.

Donna  or Fiona

(ii) Give a reason for your answer.

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c) Fill in to make equivalent fractions.

$$\frac{1}{4} = \frac{6}{\square}$$

$$\frac{2}{3} = \frac{\square}{24}$$

8. On the **14<sup>th</sup> August** Katrina will be 8 years old.  
Her parents are throwing a pool party for Katrina and her friends.

### August 2012

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			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) **When** shall they have the party, **so that everyone can come?**

Katrina will be on holiday in Paris from the 12<sup>th</sup> August till the 19<sup>th</sup> August.

Her best friend Tania will be spending the last 7 days of the month in Gozo.

Faye has piano lessons in the morning and dancing lessons in the afternoon on Wednesdays and Fridays.

On Thursday 23<sup>rd</sup> August, Sara has another birthday party.

Katrina doesn't wish to have her pool party before her birthday.

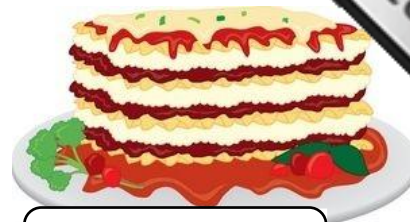
On Monday 20<sup>th</sup> August, Gabriella will spend a day at her grandma to help her with the house chores.

\_\_\_\_\_ August

- b) Mark, Katrina's brother, celebrates his birthday on the **12<sup>th</sup> November**.  
**How many days** are there **from Katrina's birthday to Mark's birthday?**

\_\_\_\_\_ days

9. Mum buys  $1\frac{3}{4}$  kg ricotta.
- a) She uses **500 g** ricotta for the lasagna.  
**How much** does she have **left**?



\_\_\_\_\_ g

- b) Her son Mark **takes 220 g from the remaining ricotta** for some sandwiches he is preparing.  
**How much** ricotta is **left now**?

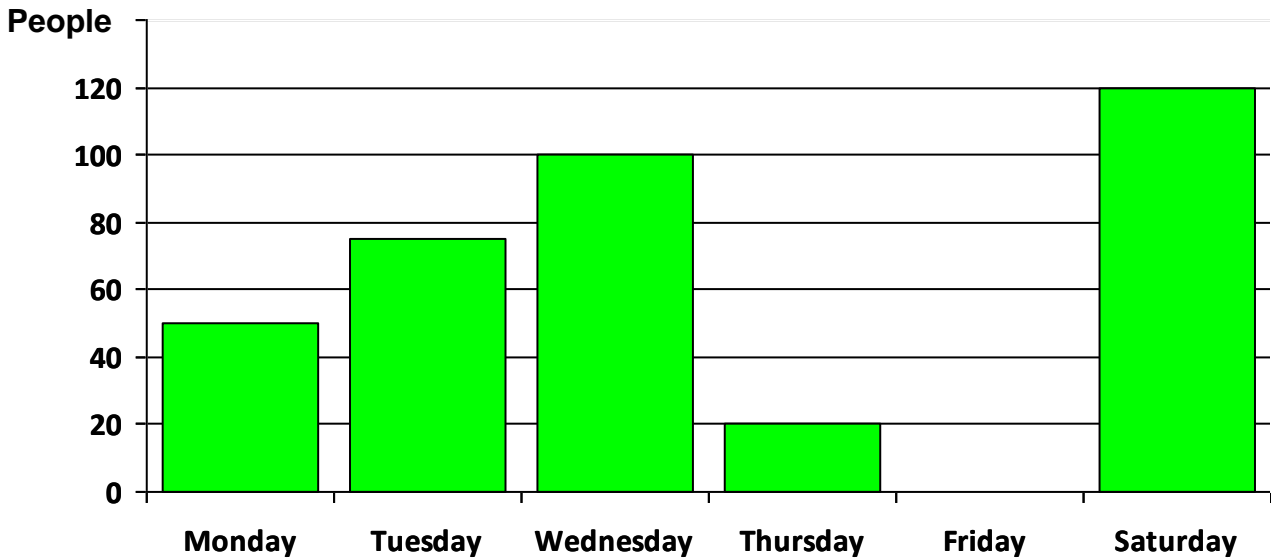
\_\_\_\_\_ kg

- c) Mum wants to prepare some ricotta pies.  
**For each ricotta pie** she will need **50 g** of ricotta.  
**How many pies** can she make with **the remaining ricotta**?



\_\_\_\_\_ pies

10. The local library is a very popular place for both children and adults. **This graph shows how many people borrowed books from the library last week.**



- a) **Complete this information table.**

Days of the week	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
People	50	75		20	70	120

- b) **Complete the graph.**
- c) **How many people borrowed books from the library last week?**

\_\_\_\_\_ people

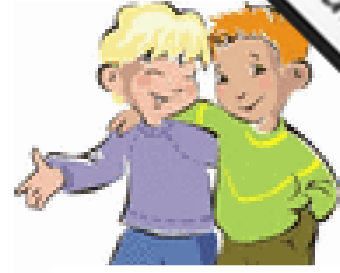
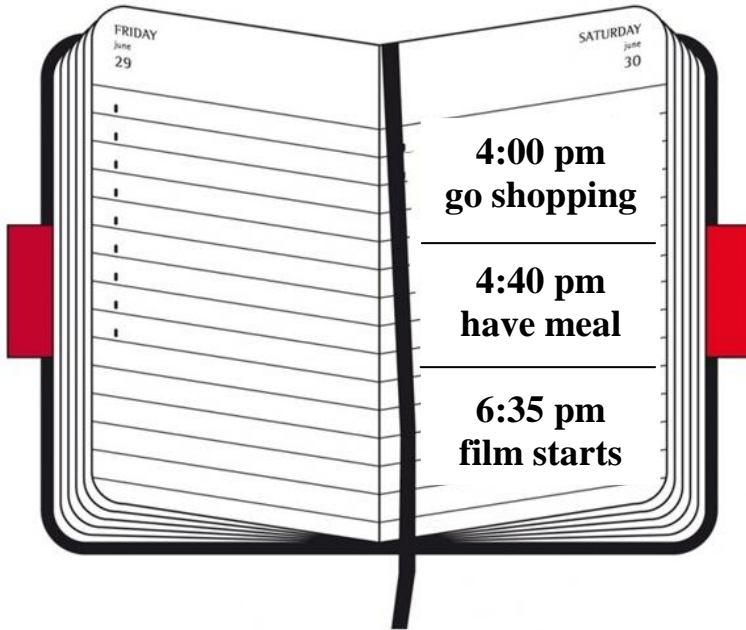
- d)  $\frac{3}{5}$  **of the people who borrowed books last week were children.**

**How many adults borrowed books from the library?**

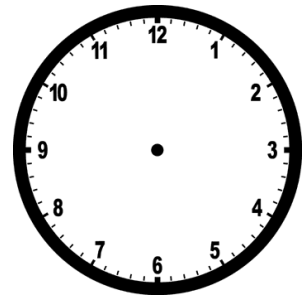
\_\_\_\_\_ adults



11. Craig and William planned to spend Saturday afternoon together.  
This was their plan:



- a) The boys decided to meet **40 minutes before 4:00 pm**.  
**On the clock face, draw the time they met.**

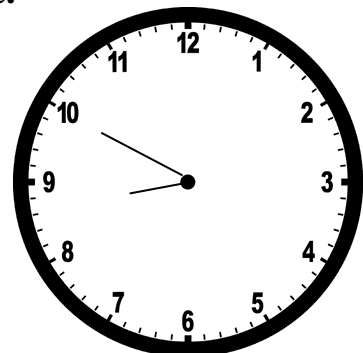


- b) The film was **1 hour 35 minutes** long.  
**At what time did the film end?**

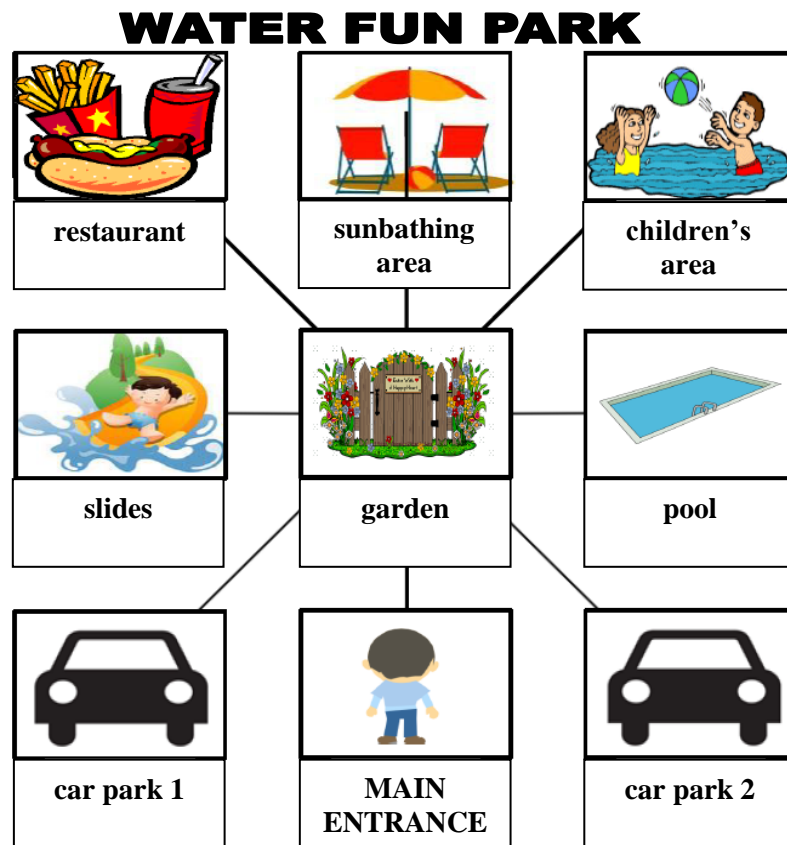
\_\_\_\_:\_\_\_\_ pm

- c) This clock face shows the time William was back home.  
**Tick ( ✓ ) the time that matches the clock face.**

- (i) ten minutes to eight
- (ii) ten minutes past nine
- (iii) ten minutes to nine



12. Aaron is at the **MAIN ENTRANCE** of the Water Fun Park, facing **GARDEN**.



a) **Fill in**, using the **directions**.

- (i) Aaron wants to go to the **garden** first. He has to go \_\_\_\_\_.
- (ii) To go from the **garden** to the **pool**, Aaron has to walk \_\_\_\_\_.
- (iii) Aaron has lunch at the restaurant. The **restaurant** is \_\_\_\_\_ of the **garden**.
- (iv) Then, he goes to the slides. The **slides** are \_\_\_\_\_ of the **restaurant**.

b) Aaron is at the **slides** facing **North**.

To face **car park 1** he has to turn (  $3\frac{1}{2}$ ,  $1\frac{1}{2}$ , 2 ) **right angles**.

This is **equal** to \_\_\_\_\_ °.

13. Who am I?

Note: I am a number from 1 to 100.

Follow all the clues below to guess who I am.

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	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

I am an even number but not a square number.

I am a two digit number.

I am a multiple of 4 and 8.

One of my digits is odd.

The sum of my digits is 5.

The difference between my digits is 1.



I am

**END OF PAPER**

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