Annual Examinations for Primary Schools 2012

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

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 naqralek kull mistoqsija darbtejn wara xulxin. Ismagħni sew. Wara jkollok il-ħin biex tweġibha.

   • *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 ikteb ir-risposta t-tajba ħdejha.

   • *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 taħseb u tikteb kull risposta.'

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

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

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

END OF MENTAL PAPER

DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCATION

Department for Curriculum Management and eLearning

Educational Assessment Unit

Annual Examinations for Primary Schools 2012

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

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.	

2.	

3.	**months**

4.	**lines**

5.	

6.	

7.	

8.	

9.	

10.	

11.	cm

12.	

13.	

14.	

15.	

16.	

17.	

18.	litres

19.	

20.	cent

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

Annual Examinations for Primary Schools 2012

YEAR 5	MATHEMATICS WRITTEN PAPER	TIME: 1 h 15 min

Name: _____ **Class:** _____

1. **Fill in:**

a)	$62 + \boxed{} = 100$
b)	$905 - 399 = \boxed{}$
c)	$408 \div 4 = \boxed{}$
d)	$8 \times 25 = (8 \times \boxed{}) + (8 \times \boxed{})$
e)	$\frac{3}{4}$ litre $> \boxed{}$ mℓ
f)	5:40 pm, 5:55 pm, $\boxed{\text{__:__ pm}}$, $\boxed{\text{__:__ pm}}$, 6:40 pm
g)	$\boxed{} \times 10 = 725$
h)	**Round** $47 \cdot 61$ to the **nearest whole number**. $\boxed{}$
i)	$\boxed{} - 3 \cdot 37$ m $= 7 \cdot 54$ m
j)	$\frac{17}{4} = \boxed{} \dfrac{\boxed{}}{\boxed{}}$

2. **Which numbers match the clues?**
   Note: Each number can only be used once.

9305

3396

1227

4628

4268
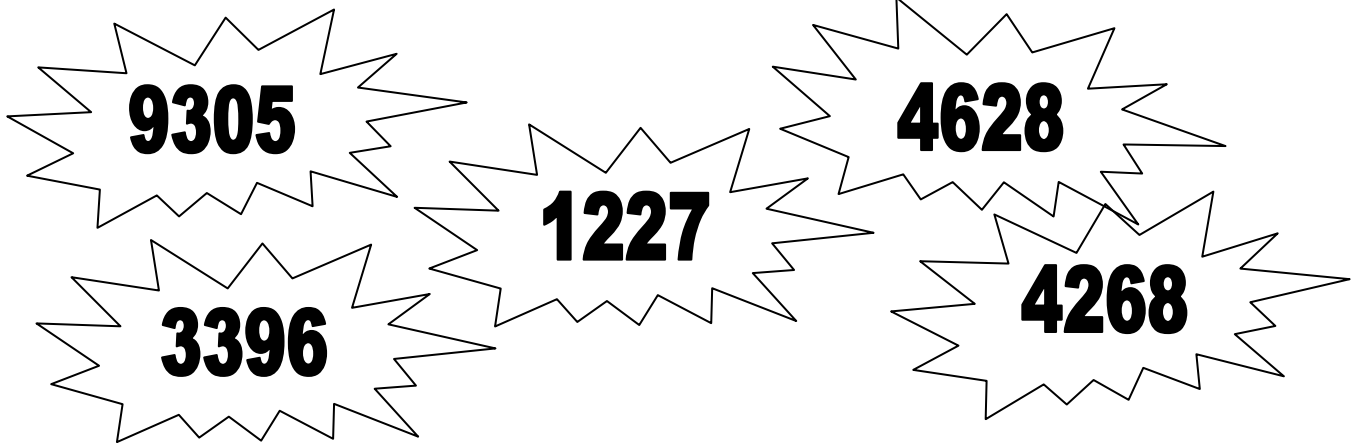
a)   This is **equal** to 409 × 3.

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.

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

SALE !

cap
was €18 now just €9

shirt
was €22·50 now just €10·25

jacket
was €34·40 now just €18·20

trainers
was €27·50 now just €12·75

jeans
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?

€___ · ___

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

|		
example	The **capacity of a teaspoon** is about	0·15 kg
a)	A **new born baby weighs** about	3 kg
b)	A **kettle holds** about	250 *ml*
c)	The **weight of an apple** is about	1·5 litres
d)	The **capacity of a mug** is about	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 cm^2. My **length is 4 times my width**.

    What is my **length**?

    ┌─────────────┐
    │ _____ **cm** │
    └─────────────┘

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

(i)   (ii)   (iii)   (iv)
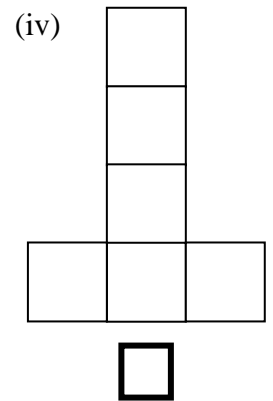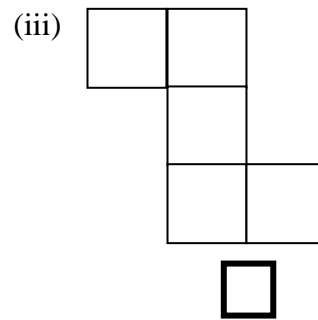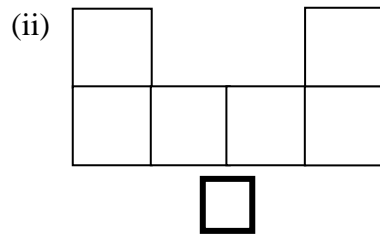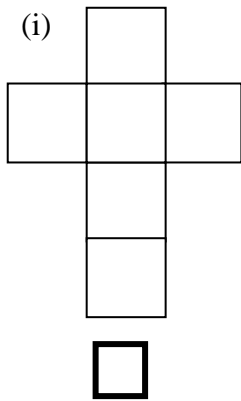
b)   **Match.**

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).*

0·45	$\frac{1}{2}$	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.

_____

_____

c) **Fill in** to make **equivalent fractions**.

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

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

8. On the **14th 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 12th August till the 19th 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 23rd August, Sara has another birthday party.

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

On Monday 20th 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 **12th 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**
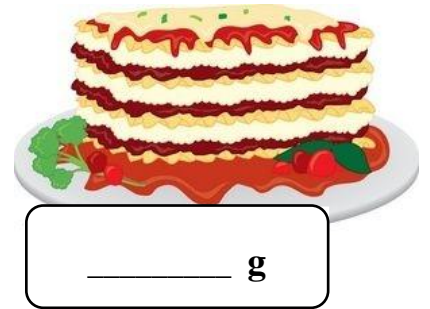
b) Her son Mark **takes 220 g from the remaining ricotta** for some sandwiches he is preparing.
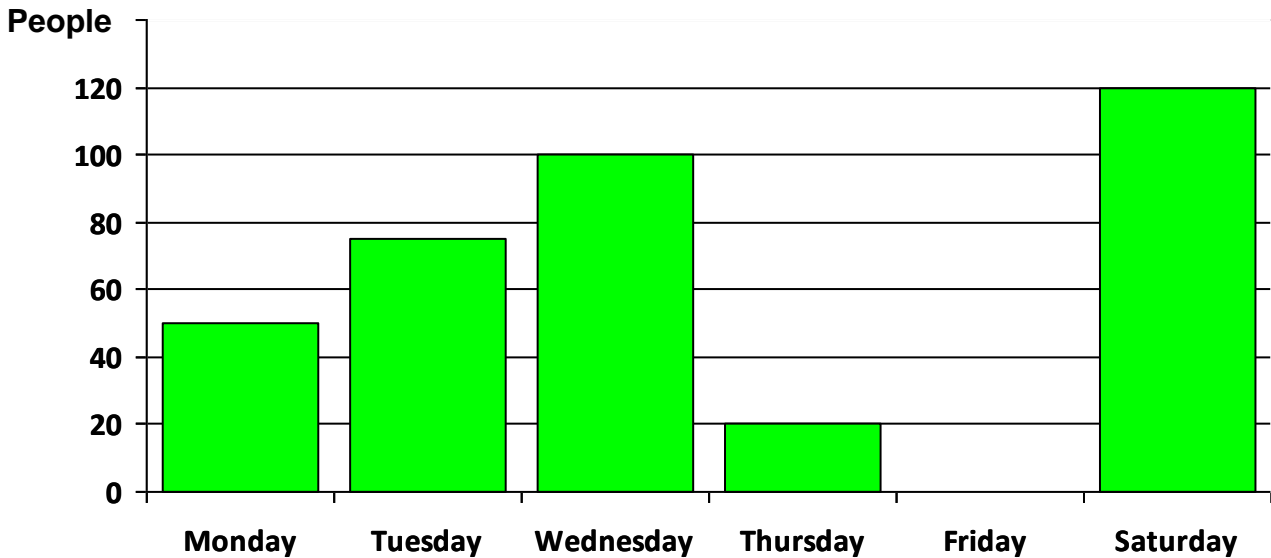**How much** ricotta is **left now**?

_____ **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**.

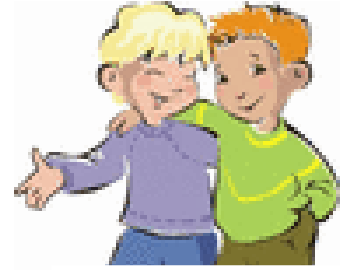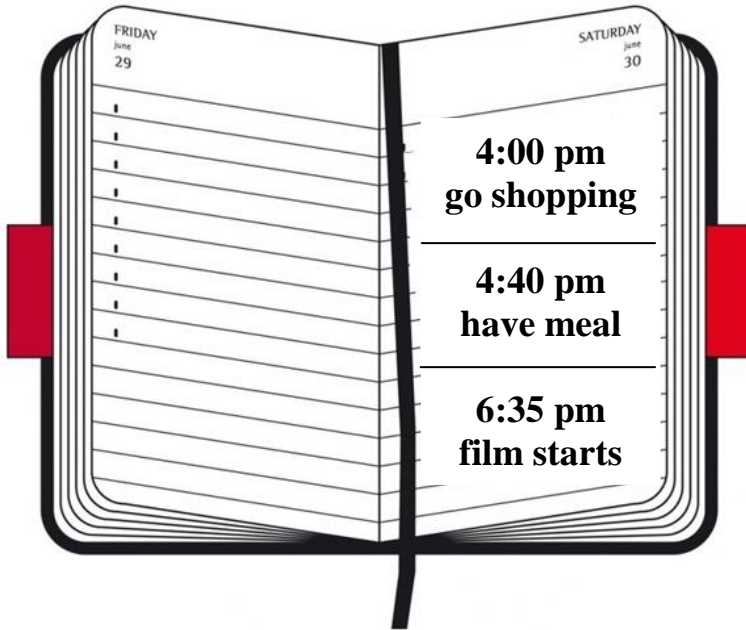c) **How many people** borrowed books from the library **last week**?

_____ people

d) $\dfrac{3}{5}$ **of the people who borrowed books** last week were children.
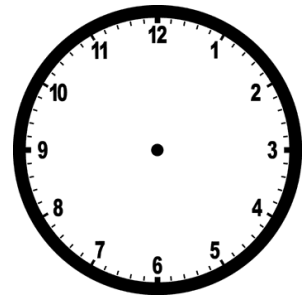
How many adults borrowed books from the library?

_____ adults

11.   Craig and William planned to spend Saturday afternoon together.

This was their plan:

FRIDAY
June
29

SATURDAY
june
30

**4:00 pm
go shopping**

**4:40 pm
have meal**

**6:35 pm
film starts**

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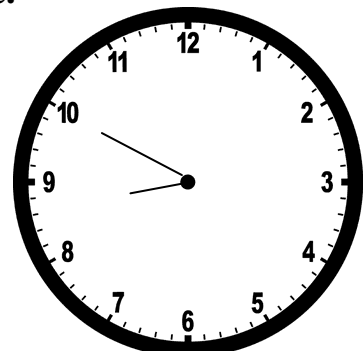
On the clock face, draw the time they met.

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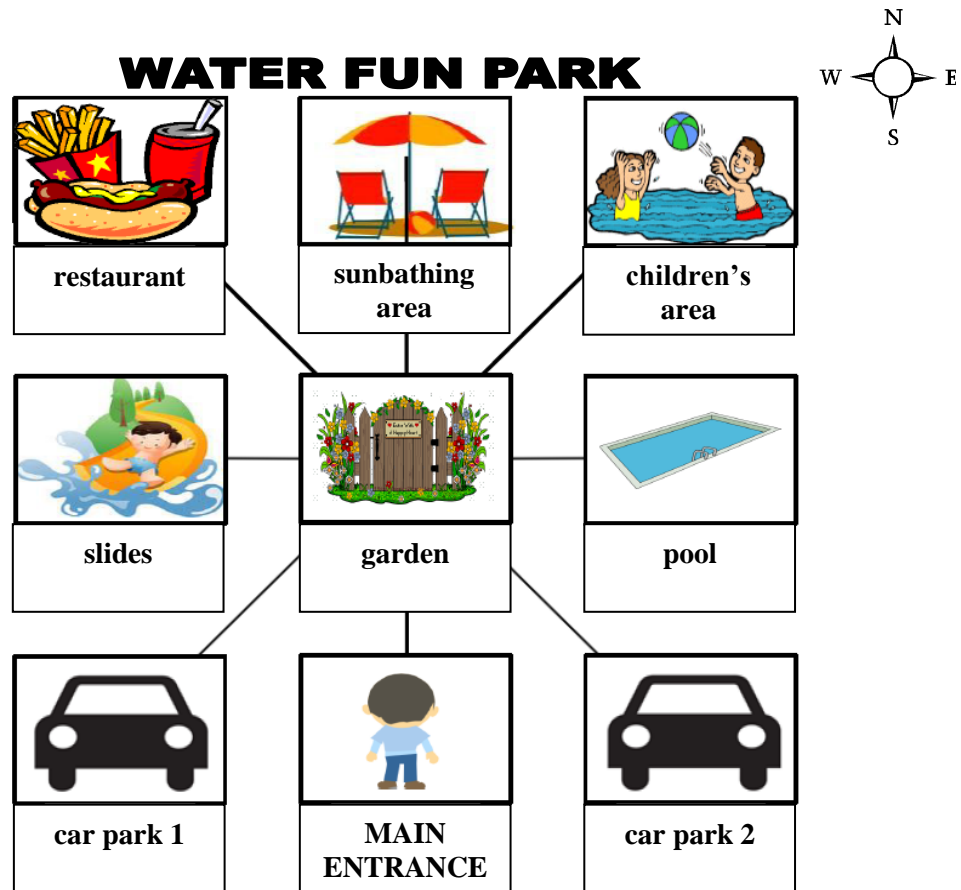
At what time did the film end?

____:____ 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 the GARDEN.**

WATER FUN PARK

restaurant	sunbathing area	children's area
slides	garden	pool
car park 1	MAIN ENTRANCE	car park 2

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 _____ $^{\circ}$.

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

Marks' Scheme Nos. 1 a - j 10×2 = 20

2 - 7 6×4 = 24

8 - 13 6×6 = 36

TOTAL [80]