DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCATION
Department of Curriculum Management
Educational Assessment Unit

Annual Examinations for Primary Schools 2014

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	How many **hours** in **one day**?
2	How many **lines of symmetry** in a **square**?
3	How many **edges** in a **cylinder**?
4	What is **seven times nine**?
5	Write **one thousand and thirty** in **figures**.

'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	Write **zero point seven** as a **fraction**.
7	Which of these numbers is a **multiple** of **eight**: thirty eight, forty four or **sixty four**?
8	**Round six hundred twenty three** to the **nearest ten**.
9	What is **one third** of **sixty**?
10	How many **centimetres** in **fifteen metres**?

11	What is the **next odd number** after **ninety nine**?
12	How many **grams** must you **add** to **two hundred and fifty grams** to make **half a kilogram**?
13	What time is it **ten hours after six am**?
14	How many **twenties** in **four hundred**?
15	Write **one whole and one half** as an **improper fraction**.

'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	What is **three quarters** of **twelve euro**?
17	I think of a **number**. When I **divide** the **number** by **six,** the **answer** is **three remainder five.** What is the **number**?
18	How many **right angles** in a **clockwise turn** from **South East to North West**?
19	**Subtract four hundred and ninety nine** from **six hundred**.
20	What is **twelve** multiplied by **eleven**?

END OF MENTAL PAPER

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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.	hours

2.	lines of symmetry

3.	edges

4.	

5.	

6.	

7.	

8.	

9.	

10.	cm

11.	

12.	grams

13.	☐ 4:00 pm ☐ 6:00 pm

14.	

15.	

16.	€

17.	

18.	right angles

19.	

20.	

DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCATION
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Annual Examinations for Primary Schools 2014

YEAR 5	MATHEMATICS	TIME: 1 h 15 min
	WRITTEN PAPER	

Name: _____ Class: _____

1. **Fill in:**

a)	65 + [ ] = 120
b)	409 – 98 = [ ]
c)	100 ÷ 4 = [ ]
d)	8 × 70 = [ ]
e)	Write the **next two numbers** in this sequence. 1, 2, 4, 8, 16, [ ] , [ ]
f)	Fill in with *a* **square number**. 50 < [ ] < 100
g)	8·4 + [ ] = 10
h)	€15 ÷ 2 = [ ] c

i)	3 hours 15 minutes = [ ] minutes
j)	Write these **lengths in order**, starting with the **shortest**. $\frac{1}{4}$ m 2·5 cm 30 cm 30 mm [ ] [ ] [ ] [ ] smallest largest

2.   **Circle** the numbers that give **700** when **rounded to the nearest 100**.

620   690

760   710

3.   **Shade** $\frac{3}{4}$ of the shapes below.

a.   b.   c.
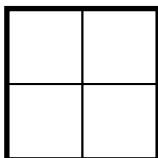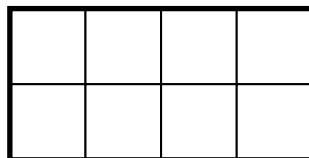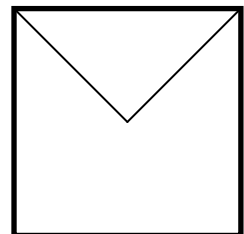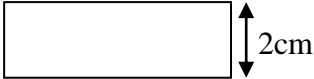
4.   Complete the table.

			Perimeter	Area
a.	square		20 cm	
b.	rectangle	2cm		12cm^2

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5.   Here are eight number cards.
     Note: You can use each number ONLY ONCE.

1	2	3	5	6	7	8	9

a.   the **largest 3-digit number** you can make

b.   *a* **multiple** of **7 and 9**

c.   *a* **factor** of **15 and 20**

d.   *an* **even number**

6. **60 children** chose their favourite flavour of yoghurt.
    The table shows the results.

Flavours of yoghurt	plain	strawberry	banana	lemon	apple
Number of children	8	16	18	4	14

a. This bar chart shows the information from the table.

    Fill in all the missing information on the vertical scale.
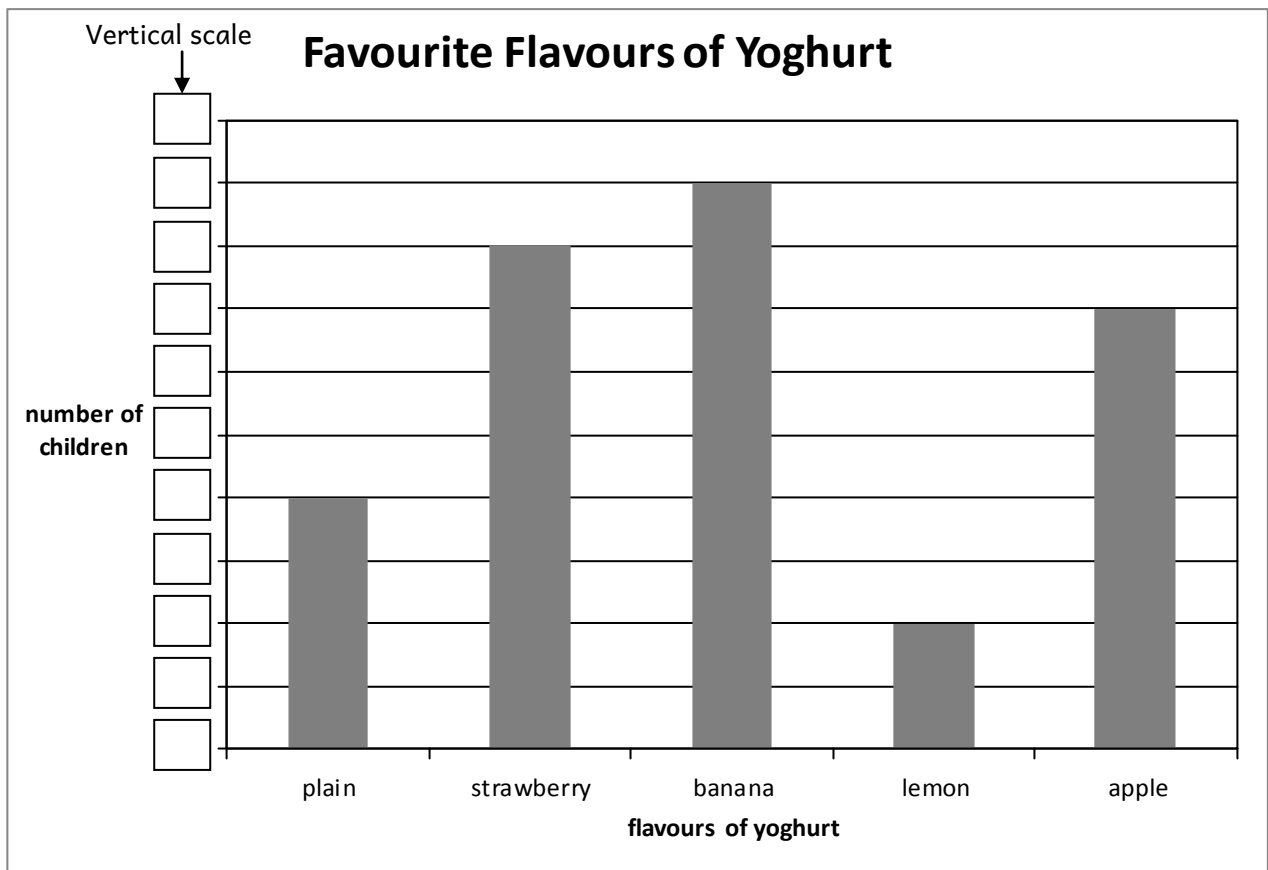
b. **Half of the number of children** who like **plain yoghurt**, like:

    Tick (✓) the correct answer.

    ☐ strawberry   ☐ banana   ☐ lemon   ☐ apple

7. A shop sells bags.

Here are four bags in the shop.
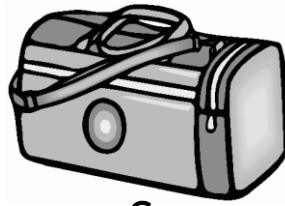
A	B	C	D
€19·90	€18·50	€25·65	€22·30

a. How much does **Bag C** cost to the **nearest Euro**?

€_____

b. Elisa buys **Bag A** and **Bag B**.
   She pays with a **€50** note.
   How much **change, in Euro,** does Elisa get?

Show your
working here
if needed.

€_____

8. **Fill in** to make a correct calculation.

| | | × | | | = | | | 5 |

Show your
working here
if needed.

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9. This **watermelon** weighs $2\frac{3}{4}$ kg.

The **same watermelon** and **2 pears** weigh **3·08 kg.**

One of the pears weighs **168 g.**

What is the weight of the **other pear** in grams?

Show your
working here
if needed.

_____ g

10. Karl and Isabella are cyclists.

a. Last Sunday Karl drank:

400 $m\ell$ of water between 6:00 and 8:00

350 $m\ell$ of water between 8:00 and 10:00

940 $m\ell$ of water during the bike ride between 10:00 and 12:00

How much water, in **litres (ℓ)**, did Karl drink **from 6:00 to 12:00**?
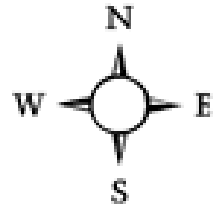
Show your working here if needed.

_____ ℓ

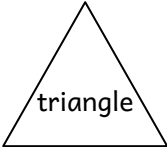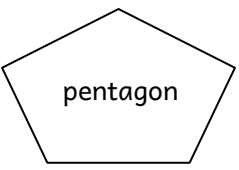b. The arrow on the scale shows the amount of water Isabella drank last Sunday from 6:00 to 12:00.

0   1ℓ 2ℓ
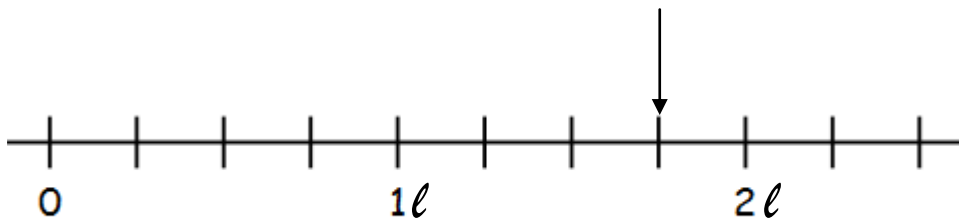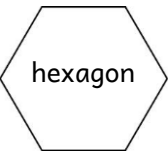
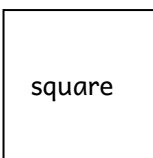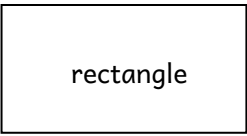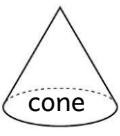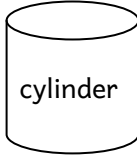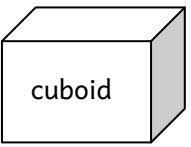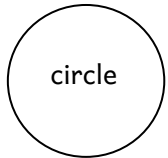How much water, in **litres (ℓ)**, did Isabella drink?

_____ ℓ

11. Look carefully at the grid below.

triangle	pentagon	hexagon
square	rectangle	cone
cylinder	cuboid	circle

a) Tick (✔) the **correct shape**.

i) The **rectangle** is **SE** of the:

☐ triangle   ☐ circle   ☐ cylinder

ii) The **cuboid** is **W** of the:

☐ cone   ☐ circle   ☐ cylinder

iii) The **square** is **N** of the:

☐ triangle   ☐ cuboid   ☐ cylinder

iv) The **pentagon** is **E** of the:

☐ triangle   ☐ cuboid   ☐ hexagon

b. **Fill in** with the **correct direction**.

i) The **hexagon** is [_____] of the **rectangle**.

ii) The **square** is [_____] of the **pentagon**.

12. Below are the Opening Times of the **Splash Park**.

Monday to Friday	8:30 am	to	5:30 pm
Saturday	9:00 am	to	9:00 pm
Sunday	10:00 am	to	9:00 pm

a. **For how long**, in hours, is the Splash Park **open** on **Mondays**?

_____ hours

b. **Tick (✓)** the day on which the Splash Park is **open** for the **longest time**?
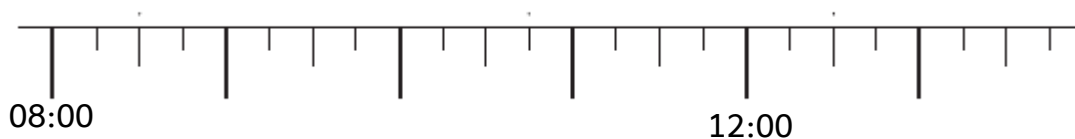
Tuesday ☐   Saturday ☐   Sunday ☐

c. Emma went to the Splash Pool on **Wednesday**.
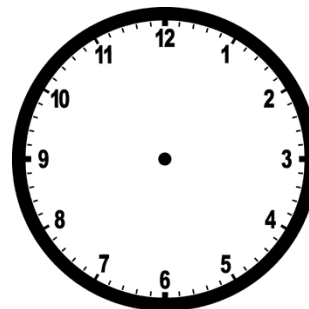
i) She was there at **quarter to 9**.
Show this time with an arrow (↓) on the timeline below.

08:00   12:00

ii) Emma went back home **one hour before closing time**.
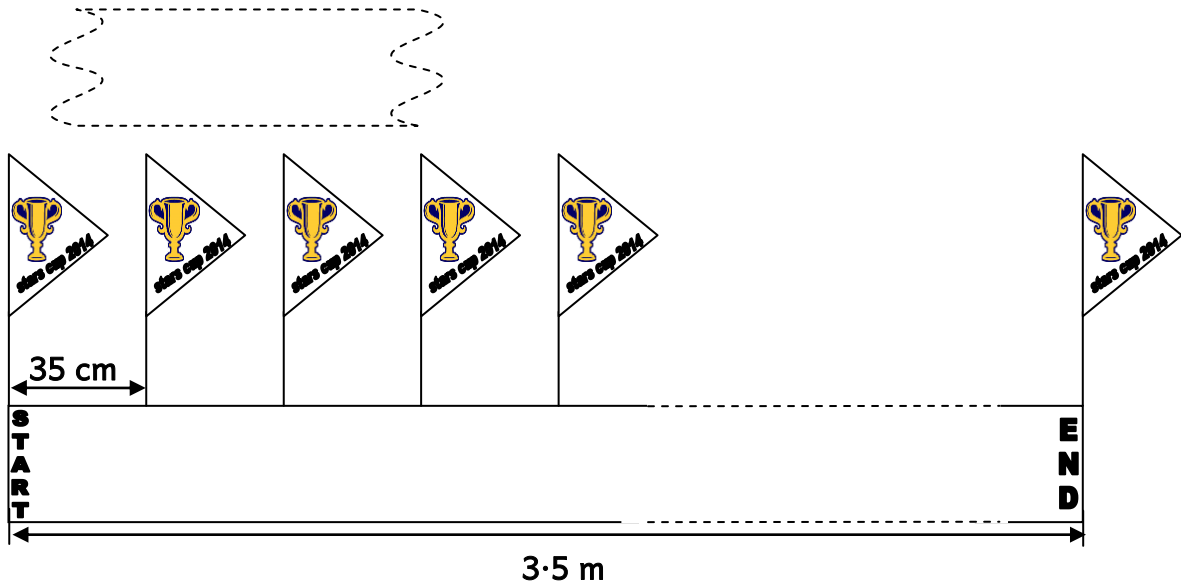
Show this time on the clock face.

13. Stars Cup 2014 flags are placed along a straight path.

    The **distance** between **2 flags** is **35cm**.

    The path is **3·5 m long**.

    A flag is placed at the start and another flag is placed at the end of the path.

    How many **flags** are there?

35 cm

3·5 m

Show your working here if needed.

_____ flags

END OF PAPER

Marks' Scheme   Nos.   1 *a* – j   10 × 2   =   20

2 – 7   6 × 4   =   24

8 – 13   6 × 6   =   36

TOTAL | 80 |