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

Annual Examinations for Primary Schools 2013

YEAR 4          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**. However, any working on the answer sheet 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. Ismaghi sew. Wara jkollok il-hin biex twe gióbha.*
   - *If you make a mistake, cross out the wrong answer and write the correct answer next to it.*
     *Jekk tiehu żball f’xi risposta, aqtaghha u ikteb ir-risposta t-tajba hdejha.*
   - *You will not be allowed to ask any questions once the test has started.*
     *Ma tistaqse 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 spićça; poġgi l-bajrow fuq il-mejda.*
MENTAL PAPER

‘For this group of questions, you 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.’

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
</table>
| 1 | Today is …
   | Tick the correct answer. |
| 2 | How many days are there in a week? |
| 3 | Write the next number:
   | sixty seven, sixty eight, sixty nine, … |
| 4 | How many grams are there in three kilograms? |
| 5 | What is two times five? |
‘For the next group of questions, you 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.’

<table>
<thead>
<tr>
<th></th>
<th>Question</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>What is the total of twelve, eight and seven?</td>
</tr>
<tr>
<td>7</td>
<td>What is eleven less than thirty nine?</td>
</tr>
<tr>
<td>8</td>
<td>How many lots of four make twenty?</td>
</tr>
<tr>
<td>9</td>
<td>What is double ten?</td>
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<tr>
<td>10</td>
<td>What is hundred subtract eighty five?</td>
</tr>
<tr>
<td>11</td>
<td>What is the total of eighty and eighty one?</td>
</tr>
<tr>
<td>12</td>
<td>Round three hundred and fifty two to the nearest hundred.</td>
</tr>
<tr>
<td>13</td>
<td>How many five euro cent coins do I need to make one euro?</td>
</tr>
<tr>
<td>14</td>
<td>What is the difference between one hundred and two and twenty five?</td>
</tr>
<tr>
<td>15</td>
<td>What is ten less than two hundred and seven?</td>
</tr>
</tbody>
</table>
‘For this group of questions, you have 20 seconds to work out each answer and write it down.’
‘Għal dawn il-mistoqsijiet li ġejjin, ghandek 20 sekonda biex tahseb u tikteb kull risposta.’

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>16</td>
<td>Add six to twenty three and subtract three.</td>
</tr>
</tbody>
</table>
| 17 | **Half of a number** is nine.  
What is the **number**? |
| 18 | Which is the **smallest**:  
One whole, one half or one quarter? |
| 19 | Kim’s favourite cartoons programme **starts** at quarter past nine.  
It is **thirty minutes long**.  
**At what time** does it **end**? |
| 20 | I face south.  
Then I **turn one right angle clockwise**.  
Which **direction** am I facing now? |

**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 2013

Year 4 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.
<p>| | |</p>
<table>
<thead>
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<tbody>
<tr>
<td>1.</td>
<td></td>
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</tbody>
</table>
|    | Monday □  Tuesday □  
|    |   Wednesday □  
|    |   Thursday □  Friday □ |
| 2. |   days |
| 3. |   |
| 4. |   g |
| 5. |   |
| 6. |   |
| 7. |   |
| 8. |   |
| 9. |   |
Name: _________________________  Class: _______________

1. Fill in:

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>a)</td>
<td>12 + 14 =</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b)</td>
<td>Double 6 =</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c)</td>
<td>× 3 = 27</td>
<td></td>
<td></td>
</tr>
<tr>
<td>d)</td>
<td>32 ÷ 4 =</td>
<td></td>
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</tr>
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<td>e)</td>
<td>€7·04 =</td>
<td></td>
<td></td>
</tr>
<tr>
<td>f)</td>
<td>503 −</td>
<td>= 496</td>
<td></td>
</tr>
<tr>
<td>g)</td>
<td>125,</td>
<td>, 175, 200,</td>
<td>, 250</td>
</tr>
<tr>
<td>h)</td>
<td>1 hour 20 minutes =</td>
<td>minutes</td>
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</tbody>
</table>

What fraction of the group of counters is shaded?

i) 

j) Write an even number between the two numbers shown.

215  218
2. **Tick (✓) the calculations that are correct.**

   a) \[182 + 23 = 250\]  
   b) \[300 - 46 = 254\]  
   c) \[4 \times 10 = 400\]  
   d) \[18 \div 4 = 4 \text{ r } 2\]

3. **Circle the measure which is nearest.**

   *Note: The first one has been done for you.*

   a) The ballerina’s **height**
      - 50 cm
      - 1.65 m
      - 6 m

   b) The **length** of a football ground
      - 150 mm
      - 155 cm
      - 105 m

   c) The **capacity** of a bottle of water
      - 5 ml
      - 500 ml
      - 50 l

   d) The **weight** of a basketball
      - 600 g
      - 6 kg
      - 60 kg

   e) The **length** of a training shoe of an 8 year old
      - 20 mm
      - 20 cm
      - 20 m
4. **Draw all the lines of symmetry** on these shapes.

   a)  
   
   b)  
   
   c)  
   
   d) Use your ruler to **draw a pentagon**.

5. **Make 3 digit numbers.**

   *Use all the cards in each question.*

   a)  & 2 & 7  
   
   the largest number  

   b)  & 1 & 2 & 5  
   
   an even number  

   c)  & 2 & 5 & 9  
   
   10 less than 305  

   d)  & 3 & 4 & 6  
   
   is 400 when rounded to the nearest 100
6. Andrew goes shopping.

a) Each banana weighs 120 g. What is the total weight of 5 bananas?

b) The total weight of the bag is 2 kg. On the way Andrew eats a banana. What is the weight of the bag now?

7. a) Shade \( \frac{1}{4} \) of this shape.

b) Shade \( \frac{2}{5} \) of this shape.

c) Fill in to make equivalent fractions.

\[
\frac{\phantom{000}}{\phantom{000}} = \frac{\phantom{000}}{\phantom{000}}
\]
8. **a)** Write the number of faces and vertices.

(i) **cube**  
- ______ faces  
- ______ vertices

(ii) **sphere**  
- ______ faces

(iii) **cylinder**  
- ______ faces  
- ______ vertices

**b)** Match the shapes with their properties. 

*The first one has been done for you.*

- **hexagon**
  - 2 faces
  - 1 vertex

- **cube**
  - 6 square faces
  - 8 vertices
  - 12 edges

- **square**
  - 2-d (flat) shape
  - 4 sides
  - 4 right angles
  - 4 lines of symmetry

- **cone**
  - 1 circular face
  - 1 vertex
  - 1 axis
  - 1 slant height

- **cylinder**
  - 2 rectangular faces
  - 1 circular base
  - 1 circular top
  - 2 cylindrical faces
9. Martina has one swimming lesson every week.

a) (i) The lesson starts at 5:10.
   Draw this time on the clock.
   (ii) The lesson ends at ten minutes to six.
   Draw this time on the clock.

(iii) **How long** is the swimming lesson?

   _______ minutes

b) Swimming lessons take place every **Monday**.

   **JUNE 2013**

<table>
<thead>
<tr>
<th>SUN</th>
<th>MON</th>
<th>TUE</th>
<th>WED</th>
<th>THU</th>
<th>FRI</th>
<th>SAT</th>
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</tbody>
</table>

   **In June 2013** Martina has _______ swimming lessons.
10. James has €40.
    He buys 2 T Shirts and a pair of shorts.

    a) How much money does James spend?

    \[ \text{€} \ \underline{\hspace{2cm}} \]

    b) How much money does he have left?

    \[ \text{€} \ \underline{\hspace{2cm}} \]

    c) How much more money does James need to get another pair of shorts?

    \[ \text{€} \ \underline{\hspace{2cm}} \]
11.  

a) You are at the Entrance of Sports Centre. 
Write down what you see if you look:

(i) North  ____________  (ii) East  ____________

b) You are at the gym facing North. 
What are you going to face if you turn:

(i) 1 right angle clockwise?  ____________
(ii) 1 right angle anticlockwise?  ____________

c) Use Compass Points to complete these sentences:

(i) The rugby field is ____________ of the pool area.
(ii) The pool area is ____________ of the tennis court.
12. All Year 4 students at Sunshine School are asked to choose their most favourite sport.

From the bar graph above:

a) How many students like football?  

b) How many more students prefer karate to tennis?  

c) There are 45 Year 4 students at Sunshine School in all.
   (i) How many students like swimming?  

   (ii) Complete the bar graph.
13. Here are some number cards.

Use five of the number cards to make this correct:

\[ \square \square - \square \square = 589 \]

Show your working.

MARKS’ SCHEME

<table>
<thead>
<tr>
<th>Nos.</th>
<th>1 a - j</th>
<th>10 × 2</th>
<th>2 - 7</th>
<th>6 × 4</th>
<th>8 - 13</th>
<th>6 × 6</th>
<th>TOTAL</th>
</tr>
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<tbody>
<tr>
<td>1 a</td>
<td></td>
<td></td>
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<td>24</td>
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<tr>
<td>2</td>
<td>10</td>
<td>20</td>
<td>20</td>
<td>24</td>
<td>36</td>
<td>36</td>
<td>80</td>
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