1st PRIMARY

SUBJECT AREA: MATHEMATICS

Concepts of numbers. Mental arithmetic .

The examiner reads the problem and notes the answer. The child must do the working out mentally – using fingers if necessary (this will be noted if done). Only if absolutely necessary can the child read the problem or have a second chance. Ordering. Before and after. Addition and subtraction. Geometric shapes .

_____

Undertaking of exercises given.
Instruments and units of measurement. Spatial location.
The pupil is required to respond orally.

Formulation problems . Mathematical logic .

(Examiner: the child reads the problem and is given time to think and to work. If necessary, explain the wording better.)

(The pupil's activities are spread across three sheets.)

Pupil:
Date:

MATHEMATICS

Concepts of number s.

- Count from 1 to 20.

- Tell me how many flowers there are here:

- If we take four flowers away, how many will there be? (You can cover them.)

Mental Arithmetic (written response)

- John has five cards and he buys four more. How many cards does he have now?

- There are ten birds sitting in a tree. Suddenly there is a noise and four of them take off. How many birds are left in the tree?

Ordering

- Order the following numbers from lowest to highest:

12 - 7 - 2 - 28 - 16 - 11 - 54

<u>Instruments and units of measuremen</u>t (spoken answer)
- What do we use to measure the length of a piece of cloth?
- And to weigh the fruit we want to buy?

Pupil:
Date:

<u>Before and after</u>

4	5	6
	10	
	21	
	39	
	50	

<u>Additions</u>

```
                              8
4               9          + 5              43
+ 3             + 7            4          + 26
-------         --------    --------      ----------
```

<u>Subtractions</u>
```
9
-5
-------         10          97              17
                -4          -52             -7
                ----------  ---------       -----------
```

<u>Spatial location</u> (spoken answer)
- What's in front of you?
- Do you know what's on your right?
- Which chair is closest to you?
- What's on your left?

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<u>Geometric shapes</u>

Colour the circle in red, the triangle in yellow and the square in blue.

Pupil:
Date:

<u>Formulation problems . Mathematical logic</u>
1- In a classroom there are 18 pupils, then 8 leave. How many are left in class?

2- 5 girls and 5 boys are invited to a party. 3 girls and 2 boys leave. How many invitees are left at the party?

3- Mary is 10 years old and her brother John is 8. How much older than John is Mary?

4- A ball costs 8 euros and I pay with a 10 euro note. How much change should I get?

5- On one apple tree, there are 5 apples, on another there are 4 and on a third there are 3 apples. How many apples are there in total? How many apples will remain if 6 apples have fallen?

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2nd PRIMARY

SUBJECT AREA: MATHEMATICS

Concepts of numbers. Additions and subtractions.

Undertaking of exercises given.

Mental arithmetic.

The examiner reads the problem various times, if appropriate. State time taken for each operation (quick/slow), exercises which required a second attempt, if fingers were counted on. The pupil's answer is spoken and the use of paper and pencil is not permitted. Instruments and units of measurement. Spatial location.

Spoken response.

Combined operations . Mathematical logic .
If necessary explain the wording better. In the third exercise, drawings are needed as an aid.

Geometric shapes .
Undertaking of exercises given.
(The pupil's activities are spread across four sheets.)

Pupil:
Date:

MATHEMATICS

Concepts of numbers .

1) Read these numbers:

3- 10 -32 - 54 - 96 - 101 - 108 - 801 - 980 - 999

2) Order the following numbers from highest to lowest:

85 - 138 - 42 329 - 101 - 220 - 103

3) Before and after:

14	15	16
	100	
	121	
	399	
	450	

4) Write these numbers out in full:

345 ....

623 ....

5) How many units – tens and hundreds – are there in the following numbers?

14 =   tens and   units
236 =   hundreds,   tens and   units

6) Count backwards from 20 to 0 (spoken answer)

7) Count in threes from 0 to 21 (written answer)

Additions

```
  3 5 2        4 8 3        3 4 2      3 2 0      3+4 =
+ 4 6 5      + 2 7 2        1 3 4      2 1 1      13+6 =
----------    ----------    + 2 4      + 1 2 5     8+5 =
                            ----------  ----------
```

Fill in the missing numbers in this addition on the line below:

```
      3 4 6 5
+

_____

_     6 6 8 9
```

Subtractions

```
6 4 2          5 3 4          8 1 5          9 -5 =
-2 2 1        -4 4 2          -3 6          12 -7 =
------------    -----------    -------------  20 – 8 =
```

Mental arithmetic (no pencil or paper)

• How many paws do three dogs have between them?

• If I have 24 chickens and 12 die, how many are left?

• I'm 9 years old and my older sister is 15. How much older than me is she?

• Five people are travelling in a bus. At the first stop, three get off and one gets on. How many people are in the bus?

Instruments and units of measurement (spoken answer)

• What do we use to measure the length of a piece of cloth?
• And to weigh the fruit we want to buy?
• How do we measure the contents of a bottle of water?

Pupil:
Date:

Combined operations. Mathematical logic

1 – On one apple tree there are 65 apples, on another 115 and on a third there are 208. How many apples are there in total?

How many apples are still on the trees if 106 have fallen?

2 – You have three pastries. I give you two more pastries and you eat one. How many pastries do you have left?

3 – At a party there are guests: 10 girls and 9 boys. 3 girls and 4 boys leave. How many guests are still there? You may help yourself through drawings.

4 – Mary is 35 and her brother John is 12. How much older is Mary than John?

Pupil:
Date:

5 – An old computer costs me 780 euros. A new computer costs 120 euros more than the old one. How much does the new computer cost?

<u>Spatial location</u> (spoken answer).

- What's in front of you?
- Do you know what's on your right?
- Which chair is closest to you?
- What's to your left-hand side?
- Tell me things that are outside this classroom and far away from you.

<u>Geometric shapes</u>

In red, colour the circular things; in green, colour the triangular things; and, in blue, colour the rectangular things.

3rd PRIMARY
SUBJECT AREA: MATHEMATICS

<u>Concepts of numbers. Additions and subtractions. Multiplication. Divisions and arithmetic operations.</u>

Undertaking of exercises given.

<u>Mental arithmetic.</u>

The examiner reads the problem various times, if appropriate. State time taken for each operation (quick/slow), exercises which required a second attempt, if fingers were counted on. The pupil's answer is spoken.
Combined operations. Mathematical logic.

Undertaking of exercises given.

<u>Instruments and units of measurement</u>.

Spoken response.

<u>Geometric shapes and spatial location.</u>

Undertaking of exercises given.
(The pupil's activities are spread across four sheets.)

Pupil:
Date:

MATHEMATICS

<u>Concepts of numbers</u>

• Can you continue these logical number series?

100, 105, 110, …………, ………… , ………… , ………… , ………. ,

997, 998, 999, ………., ………… , ………. , ………… , ………. ,

1.440, 1.445, 1.450, ………., ………… , ………… , ………. ,

150, 140, 130, ………,………… , ………. , ………… , ………. ,

25, 50, 75, …………, ………… , ………. , ………. , ………. ,

• Put the following numbers into figures:

Four hundred and fifty-nine ....

One thousand two hundred ....

Six thousand four hundred and two ....

Ten thousand three hundred ....

• Read these numbers:

1.1185 2.012 70.000 9.002

• Order from higher to lower:

1.635 - 846 - 903 - 401 - 7.455

Pupil:
Date:

- Before and after:

149	150	151
	1.000	
	1.214	
	2.399	
	6.450	

Mental arithmetic (spoken answer)

- What is two times 8? What is half of 8?
- Two times two is ___. Three times two is ___.
- Half of twenty two is ___.
- Eight people are travelling by bus. At the first stop, six people get off and three get on. How many people are on the bus?
- We had 15 hens and the fox ate 8. How many hens do we have now?
- How many eggs are there in a dozen and a half?
- How much is 60 + 40?
- How much is 100 – 25?
- How much is 1001 + 99?

Additions and subtractions.

Complete the missing numbers in these additions and subtractions.

```
   2 __    __            3  4  6  5         8  6  9
      5   4                 __
 +                          ---
 +-===-----------     + __   -  __ __    -  __ __ __
                             -------        ------------
             --------    -                         -
   1. 1 7   9           6  2  7  9         7  5  3
```

Multiplication
. Do the following multiplications:

179 x 6 =   4234 x 9 =   33 x 45 =

Pupil:
Date:
Division and arithmetic operations

       Write and perform the following divisions:

6 : 2 = 10 : 5 = 24 : 3 = 312 : 3 =

Combined operations. Mathematical logic .

1 – Andrew's mother weighs 62 kilos. Andrew's father weighs 70 kilos. How much heavier is his father than his mother?

2- 800 people are travelling in a boat. When they get to a port, 279 people disembark and 389 embark. How many people are now on board the boat?

3- Peter has three boxes of sweets with 25 sweets in each. Lewis has four boxes with 20 in each of them. How many sweets do they have between them?

They share all the sweets among 5 children. How many sweets does each child get?

4- If one game for the Game Boy costs 24 euros, how much will a dozen games cost?

5- Every day John buys 20 cards, Peter another 20 and Xavier 10 cards. How many cards do they buy between the three of them in four days?

Instruments and units of measurement(spoken answer)

- What would we use to measure the length and breadth of this piece of paper?
- In what unit would we express the distance between Huesca and Monzón?
- How long does it take you to walk from home to school?
- With what unit would we measure the amount of milk drunk in a house?
- How many days are there in a year?

Geometric shapes and spatial location

Draw: a triangle, a square, a circumference, a rectangle, a cylinder.

4th PRIMARY
SUBJECT AREA: MATHEMATICS

Concepts of numbers. Multiplication. Division.

Undertaking of activities.

Mental arithmetic. Instruments and units of measurement.

Spoken response.

Combined operations. Mathematical logic. Geometric shapes.

Undertaking of activities.
(The pupil's activities are spread across five sheets.)

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Pupil:
Date:

MATHEMATICS

Concepts of numbers

• Read these numbers:

8.060 – 4.002 – 1.627 – 1.420 – 24.835 – 99.743

• Write out as figures:

One thousand two hundred and twelve ....

Seventy thousand and eight ....

Fifty-four thousand two hundred and thirty-three ....

• Order these numbers from highest to lowest:

1.032 - 909 - 24.185 - 8.560 - 94.677 - 3.750

• Continue these series:

30 – 28 –26 –24 - ....

1.000 – 900 – 800 - ....

25-50-75- ....

11 – 22 – 33 - ....

Pupil:
Date:

- Write the number before and after.

• Multiplication

Write and do the following operations:

603 x 78 = 987 x 62 = 9 x 10.000 =

• Division

Write and do the following operations:
73 : 3 = 94 : 5 = 877 : 26 =

- Fill in the missing number: 30 : _____ = 5

Pupil:
Date:

Mental arithmetic (spoken answer)

• Mentally calculate and only tell me the answer:

9 x 100 = 25 x 10 = 28 – 15 =

1001 + 99 = 1050 + 3500 =

• I have one and a half oranges. How many half oranges do I have?

• There are 20 people in a bus. At the first stop, 9 get off and 3 get on. How many people are in the bus?

• 8 people have got off the bus and 7 are still on-board. How many people were in the bus?

Combined operations. Mathematical logic.

1 – We share 60 sweets among 15 children. How many sweets does each child get?

2 – Peter has three boxes of sweets with 75 sweets in each box.
Lewis has fifteen boxes with 20 sweets in each of them. How many sweets do they have between them?

The sweets are shared among 20 children in their class. How many sweets does each child get?

Pupil:
Date:

3- I want to buy three computer games priced at 135 euros each and I have 1,000 euros. Will I have enough money?

4 – A cinema has 525 seats. At the beginning of the first film there are 498 people and when it finishes, 101 people leave and 110 more people enter. Will there be enough seats for all the people?

5 – A man goes out shopping and spends 580 euros on a washing-machine, 349 on a DVD and 980 on a computer. When he arrives home, he still has 1,250 euros. With how much money did he leave home?

Instruments and units of measurement(spoken answer)

- What would we do to measure the length and breadth of this piece of paper?
- In which unit would we express the distance between Huesca and Monzón?
- How long does it take you to walk to school from home?
- In what unit can we measure the consumption of milk in a house?
- How many hours are 120 minutes?
- How many metres are there in a kilometre?
- How many centimetres are there in a metre?
  How many grams are there in a kilo?

Pupil:
Date:

Geometric shapes

Draw: a triangle, a square, a circumference, a rhombus, a pentagon, a cylinder and a pyramid.

5th PRIMARY

SUBJECT AREA: MATHEMATICS

Numerals:

Operations:

- with whole numbers
- with decimals
- with fractions
- mental arithmetic

Combined operations. Mathematical logic

Instruments and units of measurement

Geometric shapes

Pupil:
Date:

MATHEMATICS

Put the following numbers in figures:
      a) two hundred and eighteen thousand six hundred and fifty-one ....
      b) five hundred thousand three hundred and sixty-nine ....

What whole numbers correspond to the following Roman numbers?

      a) M = ... V= .... X= ....
      b) L= .... C= .... D= ....

<u>Operations</u>:

Whole numbers:

$4856 \times 345 =$

$6954 \times 867 =$

$56.8 - 19.475 =$

$2.35 \times 10 = 8.9 \times$

$100 = 1345 : 10$

$= 25 : 100 =$

Fractions:

Calculate:

$\dfrac{8}{5}$ de 65 = $\dfrac{7 \text{ de } 160}{10}$ = $\dfrac{8 \text{ de } 65}{5}$ =

Write the sign =, > y < as required:

$\dfrac{5}{7}$ 1 $\dfrac{6}{4}$ 1 $\dfrac{5}{5}$ 1

Mental arithmetic (spoken answer):

Calculate:

    a) Half of 14

    b) A third of 21

    c) 15 x 100

    d) There are 20 people in a bus. At the first stop, 9 get off and 3 get on. How many people go on to the next stop?

    e) 8 passengers have got off the bus but there are still 7 on board. How many passengers were on board?

Combined operations

1– A shop-keeper buys 23 metres of cloth for 195 euros. Then, he sells each metre for 18 euros. How much profit does the shop-keeper make per metre?

2 – Adrian buys a computer for 948 euros. He pays for half straight away and pays the rest over twelve months. How much does he pay per month?

3 – On one plot of land there are 200 trees, poplars and pines. 35% of the trees are pines. How many poplars are there?

4- In one day, a shop-keeper sells 5 different types of article and makes the following table:

Article	Price in euros of Each article	Nº of articles Sold in the day
Books	13	25
Notebooks	3	50
Stories	8	20
Diaries	6	30
Magazines	5	35

- Now present the data in the following graph:

[Graph]

And answer:

How much was collected for the articles at 13 euros?

How much money was collected in the whole day?

Instruments and units of measurement:

How many kilograms of sugar are there in 3000. 8 0 grams?

How many litres are there in 2 hectolitres and 6 decalitres?

Pepe leaves home at ten past three and arrives at his destination at eleven thirty-five. How long has he taken?

Geometric shapes:

Draw:Two parallel straight lines

Two perpendicular straight lines

A rectangular triangle

An equilateral triangle

An isosceles triangle

6th PRIMARY

SUBJECT AREA: MATHEMATICS

<u>Numerals</u>:

<u>Operations</u>:

- with whole numbers
- mental arithmetic
- combined operations. Mathematical logic

<u>Instruments and units of measurement</u>

<u>Geometric shapes</u>

Pupil:

Date:

MATHEMATICS

Operations:

Whole numbers:

a) 78.456 x 1045 =

b) 97825 : 76 =

c) 92 =

d) 83 =

e) square root of 25 =

f) square root of 36 =

g) 28 – (19+5) =

h) 45 – (28-9) + 13 =

i) 3/5 : 7/8 =

Mental arithmetic (written answer)

Calculate:
a) 50 % of 240
b) half of 14
c) 15 x 100

d) 2/3 of 21

e) 48 people are travelling by bus. Half of them get off at the first stop while 17 get on. How many people are now in the bus?

f) John and Anna have done 36 pages of work for class. Anna has done three times as many pages as John. How many pages has each of them done?

Combined operations. Mathematical logic

1 Today Alice is going to wear a tee-shirt and trousers: the tee-shirt could be red, green, blue or yellow; the trousers could be long or short. How many different ways can Alice dress herself?

2 A baker uses 20 kg of flour to make 160 loaves of bread. How many kilos of flour will he need to make 240 loaves of bread?

3 In a nursery, there are 20 3 year-olds, 22 4 year-old and 15 5 year-olds. What is the total age of all these children?

4 Find the area of a park which is 30 metres long and whose breadth is a quarter of the length (1/4 of 30).

5 In an electronics store, a man buys a television for 380 euros, a video for 200 euros and a music system for 187 euros. After paying, he still has 25 euros. How many euros did he have before buying these electronic items?
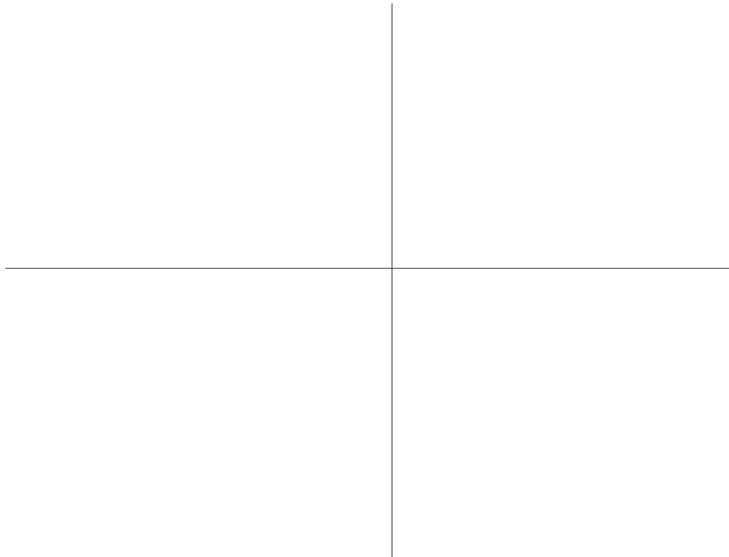
Instruments and units of measurement:
a) How many kgs of sugar are there in 3000.80 gr?

b) Pepe goes on a trip: he takes the train at ten past three and arrives at his destination at eleven thirty-five. How long does his journey take?

c) How many litres are in 2 hectolitres and 6 decalitres?

Geometric shapes:

On this graph, place the following points: A (+2,-4); B (+9, -7); C (+4,-5)

Draw a circle and put the radius, the diameter and the chord:

Draw an angle of 180º, another of 45º and another of 35º - use a protractor.