eTwinning 2016

## Children's Set

# of Maths Problems 

## Maths tasks created by kids

Szóstka 2016

# Children's Set of Maths Problems 

# Maths tasks created by kids 

Edited by Ewa Antoniuk, Bożena Stawińska, Małgorzata Grudzińska Primary School of Cardinal Stefan Wyszyński in Szóstka, Poland

## Published in 2016 (PDF)

by Primary School of Cardinal Stefan Wyszyński in Szóstka, Poland

Title: Children's Set of Maths Problems. Maths tasks created by kids
Names: MA Ewa Antoniuk, MA Bożena Sławińska, MA Małgorzata Grudzińska(eds)
Cover: Małgorzata Grudzińska; the part of a cover was created using Tagxedo software

The right of Ewa Antoniuk, Bożena Sławińska and Małgorzata Grudzińska to be identified as the author of the editorial material. The book is collaborative endeavour of numerous schools, teachers and students, within eTwinning platform.

The book may be reprinted or reproduced only for educational purposes.

Szóstka, Poland 2016
eTwinning 2016

## Acknowledgements

The Book is a collaborative endeavour of numerous schools, teachers and students. We are extremely grateful to a number of people for their support and involvement in the process of making this handbook. First, a strong word on appreciation to all schools and teachers that got involved in the Project and engaged students in it. Working with such colleagues has been a pleasure. Special thanks to Eucja Barbarowicz who was the coordinator of the Project. We would like to express our thanks to our headmaster Matgorzata Celińska for their enormous help and support. Finally, we would like to acknowledge the support of all our friends and colleagues at the Primary School of Cardinal Stefan Wyszyński in Szóstka.

This book is dedicated to all the teachers that experiment with their teaching in order to provide the best for their students.

## CONTENTS

SCHOOL: Publiczna Szkoła Podstawowa im. Kardynała Stefana Wyszyńskiego, Runów, Poland ..... 5
SCHOOL: Kauno Rokų gimnazja, Lithuania ..... 11
SCHOOL: C.P. Santiago Apóstol. Mieres, Spain ..... 15
SCHOOL: 7th Primary School Nikea, Greece ..... 21
SCHOOL: Pirazzini school of Faenza, Italy ..... 28
SCHOOL: Lyceum "Mesterul Manole", Moldova ..... 34
SCHOOL: Szkoła Podstawowa im. J. Kulli, Kobyla Góra, Poland ..... 36
SCHOOL: Scoala Gimnaziala nr 1 Vladeni, Romania ..... 40
SCHOOL: Szkoła Podstawowa im. ks. kard. Stefana Wyszyńskiego, Szóstka, Poland ..... 43

## POLAND

# Publiczna Szkoła Podstawowa im. Kardynała Stefana Wyszyńskiego w Runowie 

## Class IV - VI

$$
\text { Age } 9 \text { - } 11
$$

## TEACHER: Łucja Barbarowicz

1
The farmer had 120 liters of milk. He began pouring it into bottles of different capacities. He had 40 bottles with a capacity of $1 / 2$ liter, 60 bottles of a capacity of $1 / 3$ liter and 70 bottles of 1 liter. Does milk fit into these bottles?

2.

In our class there are five windows measuring $130 \mathrm{~cm} \times 210 \mathrm{~cm}$. How many meters of the seal must be purchased? How much pay for the gasket if one meter costs 3.99 euro?

3.

On the Christmas tree baubles blue and red. Blue glass balls was two times more than red. Maria put another eight red balls. One blue bauble dropped. On the Christmas tree is the same number of balls of red and blue. How much is a red glass balls and how much blue?


4
Tourist passed within three days 84 km . On the second day he went four kilometers more than the first day. On the third day passed two times more than the second day. How many kilometers walked every day?

5.

Warehouse bought 40 bags after half a kilo of rice, 60 containers with $1 / 3$ kilo of flour, 70 kg of oranges. Is the truck with a maximum load capacity of 100 kg can be allowed to carry the goods?

6.

Class IV collects nuts. After a week, they collected 236 pieces. How much falls on one student, if a class has 15 people?

7.

Class IV collected toys for the children from the orphanage: Monday gathered 69 pieces, on Wednesday 43 toys, and on Friday 57 pieces. The children's home is 82 persons. How many toys get every child?

8.

Kuba ordered a pizza, which weighed 81 decagrams. How much they will weigh 4 such pizzas? Result enter in kilograms.

Zuzia - 9 years old

9.

Susan bought a teddy bear for 6 euro and a book about Warsaw for 39 euro. She had 37 euro the rest.
How much money had together Susan?

10.

Dad with Jola went into the forest. Jola found 25 mushrooms, and my dad five times more. How many mushrooms gathered together?

11.

Maciek within half a minute hit the ball 44 times. How many times will he hit the ball within fifteen minutes?


Lidia - 10 lat
12.

Farm for sheep is a square with sides of fourteen meters. The wind tore the fence enclosure. How many meters need to fix the mesh fence. Consider that the gate is four meters.

13.

Anne's birthday on January 26, and her uncle 32 days later. In what day my uncle's birthday?

14.

Stored 85 kg of apples and plums seven times more. Pears was about 259 kg less than plums. How many kilograms of fruit stored?

15.

The garden grows 26 flowers. Gardener ordered yet 38 . How many flowers will be in the garden?


## LITHUANIA

## SCHOOL: Kauno Rokų gimnazija

## TEACHER: Grasilda Celiesiene Celiesiene

1. 

1 liter of water weighs 1 kilogram. Does 1 liter of juice weigh 1 kilogram too? Guess. Check and calculate the difference.

2.

Mother left 12 pancakes for Pancake Tuesday festival. For the first time the dressed guests came and mother gave them $1 / 6$ of pancakes; then others dressed guests came and we gave them $1 / 5$ of left pancakes. And then the dressed guests came the third time, they got $2 / 4$ of left pancakes. How many pancakes were left for us?

3.

A grasshopper jump - 500 mm , a frog -150 cm . How many jumps need for a grasshopper and for a frog that they could reach their home, which are 4 meters away? Which will come the first to the house?

4.

I put 4 ice cubes in the fridge. One ice cube weighed 25 grams. What will happen with ice cubes after day? How much do they weigh?

5.

The decorative rabbit eats 60 grams of grass per day. Modestas visited the zoo shop and he bought a 500 gram packet of grass. Does he have enough grass for 10 days? Explain why?

6.

Eglė is raising a snail. The snail crawled away 133 cm for 1 minute. The girl left the house door ajar for 5 minutes. At what distance from the house she has to look for a snail?

7.

Weigh 1 tablespoon of sugar and a glass of water. Dissolve everything. What is happening with sugar? What do you think, how the change affects the overall weight? Why? Check.

8.

The highest tulip is 75 cm and the lowest tulip reaches 15 cm . Calculate the height difference. How many should be placed the lowest tulips that they would be the same height?

9.

With one pen we can draw a 4150 meter distance and it costs 1.50 euro. With another pen we can draw a 1200 meter distance and it costs o.35euro. Which pen is worth to buy, if you need to draw the length of distance 3600 meter? Why?


## SPAIN

## SCHOOL C.P. Santiago Apóstol. Mieres.

## CLASS: $5^{\text {th }}$ class primary school

## AGE: 10-11/12 years

## TEACHER: Montserrat Cachero López

Thanks to teacher Diana for your collaboration.

NAMES OF STUDENTS:
Deva A .A., Lucía A. A, José Manuel A. S., Pelayo A. M., Unai B.S., Marina C. R., Jaime F. A., Aarón F. S., Paula F. G., Diego G. F., Noemí G. d V. V., Héctor G. M, Irene M. G, Carla N. S, Gibson Alberto P. S, Lucía R. H., Iyán R.R., Lucía S. M, Enol V. P, Daniela V. T.
1.

María wants to buy sweets to give to her classmates for her birthday. In her class there are twenty boys and six girls. She buys forty sweets. How many sweets exceed? Has any classmate been left with no sweets?

2.

The birthday party Daniela and Noemí celebrated their birthdays on the same day. They bought twelve cans of Coke of 33 cl , one cake of 150 g , twenty candies of 5 g and three sackful of crisps of 35 gr . How many kg have they bought?

3.

The Spanish King Long time ago a medieval king of Spain had a problem. He had three boxes of wheat. One box has $4 \cdot 687,82 \mathrm{~kg}$. Another $3562,180 \mathrm{~kg}$. Another 2.500 kg . He wants to divide the three boxes between 4.300 inhabitants. He thinks he can keep the third part of the wheat for himself. How many wheat will have the king with the three boxes? How much wheat will have each inhabitant? How much wheat will the king have at the end?

4.

Four people deposit 5.540 euros in the bank. One person deposit the double than the others. How much did each person deposit?

5.

There are 120 sweets. $5 \%$ of the sweets broke. We lost two. We are 13 friends. Can we have 5 sweets for everyone of us?

6.

In a new reserve-refuge of animals fit 8.000 animals. Its first animals are arriving : 4 trucks with 1 elephant inside, 5 trucks with two bears, 3 trucks with 6 lions. Each elephant eats 200 kg of plants, each bear 130 Kg of vegetables, each lion, 25 kg of meat. How many kg of eat are there in total?

7.

II get to the drawing class at 18:00. It starts five minutes later. I leave at 20:45. How long has the drawing class lasted ? It takes me 25 minutes to get back to my house. What time do I get home?

8.

Juan wants buy a bike for 100 euros, a laptop for $500 e$, and a helmet for 50 e . If he pays with a 200 euros note and another of 500 euros, how much money will return to him?

9.

Luis the farmer wants to take his organic cow's milk to a market in a city.He lives in Mieres and the city is Oviedo. From Mieres to Oviedo there are ....Km (look it up in Google Maps). Luis does two trips, one in the morning and the other in the afternoon every day. How many km does he do in a month? One litre costs 0,79 Euros. Draw the coins that you need to pay Luis for one litre of milk and for a week.

10.

| Countries | Population | Flag |
| :--- | :---: | :--- |
| Slovenia- Eslovenia | 2046120 |  |
| Turkey - Turquía | 38483957 |  |
| Romania - Rumania | 79414269 |  |
| France - Francia | 66952000 |  |
| Lithuania - Lituania | 43986400 |  |
| Portugal - Portugal | 3350046 |  |
| Moldova - Moldavia | 11329600 |  |
| Spain - España | 3563700 |  |
| Greece - Grecia | 11329600 |  |
| Ireland- Irlanda | 4593100 |  |
| Estonia - Estonia | 1287000 |  |
| Serbia - Serbia | 7176794 |  |
| Georgia - Georgia | 3729500 |  |
| Ukraine - Ucrania | 42500 000 |  |
| Italy - Italia | 60782897 |  |
| Poland - Polonia | 38483957 |  |

11. 



- How many inhabitants has the Iberian Peninsula?
- What country has more inhabitants, Italy or Romania?
- How many inhabitants has the countries that have in its name the letter "i"
- How many inhabitants live next to the Mediterranean Sea?
- How many inhabitants have an Atlantic coast?
- How many inhabitants has the country that is further North.?
- How many inhabitants are there in the countries next to the Black Sea.
- THE MOST DIFFICULT QUESTION! How many inhabitants are there in total among the countries that participate in this project?
- How many countries have the red colour on their flag? Write the answer as a fraction.
- What colour is the most used?
- What colour is the least used?
- Look at the pictures and information. Then, make a graph.


## GREECE

# SCHOOL: 7th Primary School Nikea 

## CLASS: 6th

## AGE: 11

## TEACHER: Natasa Zogana

NAMES OF STUDENTS:
Diamantis, Antonis, Athina, Helen, Natalie, Maria P, Andrew, Maria K, Stavros, Panos, Aggelos

## A TEAM

1. 

Mr.Chris has 4.798 euros in his bank account. He submitted 3 bank notes of 100 euros, 7 bank notes of 50 euros and 10 bank notes of 20 euros. How much money does he have now in his bank account?

2.

Two twins, Fotis and Likourgos, brought a box filled with candies to school for their birthday. Although, before they got a chance to give the candies to their classmates, somebody had already eaten 6. Now they only had 32 left. How many candies did they have at the beginning? (Solve with equation).

3.

One meter of curtain fabric costs 40 euros. If somebody wants to buy 33 curtains, that each one is 2,5 meters, how much will he have to pay?

4.

Anna and Flora gathered 42 pounds of olive oil from the olive groves. Anna gathered 15 pounds. How many pounds did Flora gather? (Solve with equation).

5.

Markos likes a card game. One day he decided to play a round with his friend. After 10 minutes he beat his friend and got 15 cards from him. When he counted his cards, he counted 48. How many cards did he have at the beginning? (Solve with equation).

6.

In a patisserie every small chocolate candy cost 0,50 euros, every melomakarono (Greek Christmas candy) cost 1,00 euro and every dipla (another Greek Christmas candy) costs 2,00 euros. Mr.Stathis wanted to buy 7 chocolate candies, 5 melomakarona and 2 diples. How much did he have to pay?
7.

Robhert Downey Jr. gets 1,5 million dollars for every movie he participates in. If in the future he takes part in 7 movies, how many dollars will he have?

8.

A cowboy has 125 liters of milk and he wants to fill 25 bottles with them. How many liters will each bottle have?


## B TEAM

1. 

All the students in one class are able-bodied. Can all the students have 43 feet? Why?

2.

The $3 / 5$ of one book are 18 pages. How many pages has all the book?

3.

My grandmother bought $3 / 4$ of a kilo white cheese and she paid 4.5 euro. How much money did she pay if she bought $21 / 4$ of kilo of the same cheese?

4.

Of the CDs Paul has ,gave 3 CDs to his cousin and gave 4 CDs to his friend and 2 to Eirini. And now has 28 CD. How many CDs did he have at the beginning?

5.

One father bought a box with 10 chocolates. He wants to share them to 3 kids. Can you help him?

6.

Nadia has some money. She bought one book with 12.5 euro and one pen with 1.3 euro and now she has 7.6 euro. How much money did Nadia have?

7.

One book has 180 pages and we have read the $3 / 5$.How many pages have we read?

8.

I think of one number. I add in this 12 and I find 36.What is the number?


## ITALY

## SCHOOL: Pirazzini school of Faenza

## CLASS: 5 A

# TEACHER: Simona Montaguti 

"Alice in the mathland"
1.

Initially, Alice was 1.45 meters tall. After eating a chocolate bar grows by 43.6 cm . How tall is she? If then she drinks a potion that lowers by 3121 mm , how tall is she at the end?
2.

Mad Hatter drinks 7 cups of tea every hour. Each cup contains 30 dl of tea. How many liters does he drink in 2 days?
3.

The Red Queen has an army of hearts. He must behead the end who painted bad roses. If you have 15 numbers 6 and 10 numbers 3 what are the chances that she picks out the 6 ? And the 3 ?


## Crossword (with answers)

## Across

1) Who has got a playing cards army? Red Queen
2) Who is the main character? Alice
3) Who is a human egg? Humpty Dumpty
4) Who is the Red Queen's husband? Red King
5) Who does Alice meet in the fifth chapter? Pig and Pepper
6) Who is the Queen's cousin? Duchess
7) Who always sleeps? Dormouse
8) Who drink tea with Mad Hatter? March Hare
9) Who always drinks tea? Mad Hatter
10) Who is married to White Queen? White King

## Down

1) Who does meet Alice at the beginning of the story? Rabbit
2) Who has a smile like a moon? Cheshire cat
3) Who has got a white horse? White Queen
4) Who are the helpers of the Red Queen? Cards Painters


## Geometric questions

Rotate by $90^{\circ}$ clockwise around the center (image 1)
Move the caterpillar following the carrier (image 2)
Draw the rabbit tripled 1:3 (image 3)
Draw the mushroom halved 2:1 (image 4)
Draw the mirror image of the card along the inside axis (image 5)
Draw the mirror image of the cat along the outside axis (image 6)
Spot the differences (image 7)


## Image 1


Image 2


Image 3



Image 5



Image 7

## REPUBLIC OF MOLDOVA

# SCHOOL: Lyceum "Mesterul Manole" 

## District Causeni

Village Salcuta

## TEACHER: Maia Porombrica

1. 

Mary thought about a number. It has increased 10 times, then instead of the result of five times, he obtained the number 112. About what number thought Mary?
2.

At a booth, 540 kilograms of potatoes are placed in crates, each 5 kg . How many crates remained after they have sold 58 of crates?
3.

From a 85 -page book, he read daily 5 pages per day. In how many days did he finish reading the book?
4.

The encyclopedia costs 240 lei and is twice more expensive than the dictionary. Phone device costs as well as two encyclopedias. How much does the dictionary cost? But the phone device?
5.

The sum of the 3 numbers is 850 . The first number is the twice of 124 , and the second number is with 108 bigger than the first. Find the third number?
6.

On a land grow 999 trees: birches, mountain ashes and lime. How many lime trees there are, if 305 are birches, and 340 are mountain ashes?
7.

In a bottle of milk were 135 l , and in another 160 l of milk. Milk was poured into bottles of 3 l . How many bottles can be filled and how much milk will remain?
8.

At a beauty contest of pets take part 60 dogs and 45 cats. How many paws have all the participants in the contest?
9.

At an aviary are 142 chickens and 163 geese. How many wings have in total all birds from the farm?
10.

In an orchard grow four rows of apple trees and 6 rows of 16 hairs each. With how many hairs are more than apples?

## POLAND

# SCHOOL: Szkoła Podstawowa im. Józefa Kulli Kobyla Góra 

## TEACHER: Kamilla Stefanska

## NAMES OF STUDENTS:

Kinga Antczak, Hania Chowańska, Nikodem Doktor, Julia Jakóbczak, Krysia Kowalska, Ksawery Kowarski, Paweł Noculak, Martyna Nowakowska, Amelia Przybylska, Nikodem Standziak, Kasia Zgarda, Maja Zgarda, Zuzia Kruszelnicka, Martyna Gołdyn, Natalia Baś.
1.

What is the height of Kobyla Góra the highest hill of Wielkopolska, if its first number is half of the half of the next number and the third is half of the second number and they are all even number.

2.

Near our village is the highest hill - Kobyla Góra. At the top there is a cross. The height of this cross is 10 m and a half of the cross. How high is the cross?

3.

There are 6 kilometers from Makoszyce to Kobyla Góra. We want to go for a bike on Sunday. How long will it take to get therel, if we ride at speed 9 kph ?

4.

In our class is 24 students. There are 3 times more Girls than boys. How many girls and how many boys are in our class?

5.

Two fathers and two sons are in the garden. They have got 6 apples. Is it possible that each of them ate two apples?

6.

I have got 237 zl in a piggy-bank. I've got 100 zt and 10 zt banknotes and 1 zf and 10 gr coins. There are 5 banknotes and 25 coins. How many banknotes and coins of each kind are in the piggy- bank?

## ROMANIA

# SCHOOL: Scoala Gimnaziala nr 1 Vladeni 

CLASS: 4 th

## TEACHER: Onica Daniela Podariu

## NAMES OF STUDENTS:

Podariu Nicolae Rares, Chirila Denisa, Burlacu Maria, Hirtie Denisa, Ursache Marilena

My grandfather has 3 pigs, 5 chickens, 4 ducks and 2 turkeys. How many kilos of granule need for them, if 1 pig eats 2 kilograms (of granule), 1 chicken eats 1 kilogram (of granule), 1 duck- 3 kilograms and 1 turkey -4 kilograms.

2.

John and Danny have got together 8o toys. How many toys have each one, if John has three times more toys than Danny?

3.

In the yard of my grandfather there are ducks and rabbits. Together they have 160 legs and 55 heads. How many ducks and rabbits are in the yard of my grandfather?

4.

Victor and Bogdan would like buying each object. Victor has a half from object's price, and Bogdan a quarter from object's price. If they have together 849 euros, you have to find how much money has each one and how much cost this object.

5.

George gathered the cherries from his orchard and put them into 19 baskets with 7 and 9 kilos capacity. How many baskets with 7 kilos and how many baskets with 9 kilos have been used for a quantity of 141 kilos?


## POLAND

# SCHOOL: Szkoła Podstawowa im. ks. kard. Stefana Wyszyńskiego <br> Szóstka 

## TEACHERS: <br> Bożena Sławińska <br> Jolanta Zgorzałek <br> Ewa Antoniuk

NAMES OF STUDENTS:
Kl. III: Kinga Szczęśniak, Piotr Opalko, Bartek Zgrajek,
Eryk Kuć, Mateusz Waszczuk
Kl. IV: Andżelika Kot, Natalia Nekreś,
Kl. V: Ola Sławińska, Mikołaj Borkowicz, Tatiana
Dąbrowska, Mikołaj Borkowicz, Bartek Piekarski, Kuba
Krym, Mateusz Hukaluk
1.

The ship runs at a speed of $65 \mathrm{~km} / \mathrm{h}$. How much time does it need to sail 260 km ?

2.

Dad bought 20 liters of apple juice, 5 liters of orange juice and 3 liters of fruit juice. At the party, guests drank 13 liters and 500 militers of juice. Children drank 8 liters and 300 militers. How much liters of juice left?

3.

Agata went to the baker's to buy the rolls. She had 20 PLN. She bought 5 rolls: 1,30 PLN each end bread for 3 PLN. How much change did she get?

4.

Darek Milik scored 17 less goals than Lewandowski. How many goals did they score together?

5.

During eEster chilnden pained 23 Easter eggs. On each egg there were 4 flowers . How many flowers did the children paint at all the eggs?

6.

In a stationery shop, Ewa bought two drawing pads (3 PLN for each), a box of paints (4 PLN), and a set of brushes (12 PLN). She gave to the shop assistant 30PLN. How much change did she get? What else could she buy for the change?

7.

Grandma collected 9 eggs on Monday. Hens lay the same number of eggs every day.
How many eggs will she collect within a week?

8.

Bartek had goPLN in his piggy bank. He bought a book for his friend's birthday. The book cost 9 PLN. How much change did he get?

9.

Dad bought 24 sweets for his 3 children. He shared the sweets equally among the children. How many sweets did each of the children get?

10.

Marek and his friends made 9 snow balls. Asia and her friends made 5 times more snow balls than them. How many snow balls did Asia's team make? How many snow balls did they make together?

11.

There were 7 beehives and 5 icicle on each beehive. How many icicle were there on the beehives?

12.

Lucek ate $2 / 5$ of the carp. Ania ate $1 / 5$ of it how much was left?

13.

Mateusz bought four balls. Two of them cost 30PLN, one of them cost 53PLN and the last one cost 88PLN. How much money did he pay? How much change did he get form 200PLN?

14.

The Warsaw Uprising took place in Warsaw in 1944. Now it's 2016, so which anniversary of it do we celebrate?

15.

Patryk has got a small farm: 4 pigs and 18 rabbits, 3 dogs. Weronika wants to buy 8 rabbits from Patryk one for 20 zl. How many rabbits are left to Patryk? How much money did Weronika pay to him?


