



THE 2022 YOUNG MATHEMATICAL STORY AUTHOR (YMSA) COMPETITION

THE STUART J. MURPHY AWARD
(THE 8-11 YEARS OLD CATEGORY)

LONGLISTED

'Klee's Birthday Party!' by Sofiya Gorokhova (10 years old)
at the International School of Paphos (Cyprus)

You can read the author's inspiration for the story and the judges' comments
on:

www.mathsthroughstories.org/ymsa2022

#YMSAMaths

KLEE'S

BIRTHDAY

PARTY!



This is Klee. Tomorrow is her birthday, and she needs to buy things for her birthday and her classmates. Her mom gave her 50 Euros to buy these things.



Hi! My name is Klee and tomorrow is my birthday!

Can you help me?

But, Klee needs help!

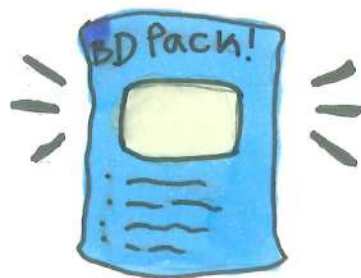
Can you help her?

BIRTHDAY!



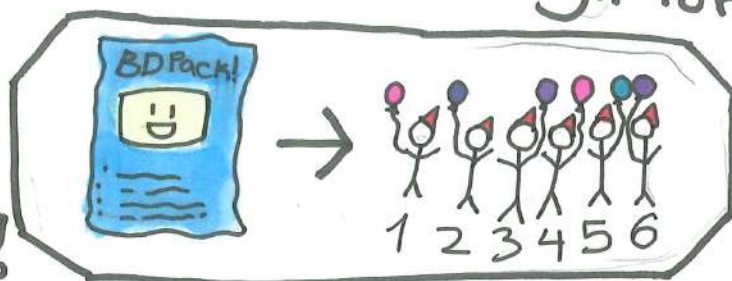
There is a birthday Pack, which contains

- 6 birthday hats
- 6 balloons
- 6 paper plates
- And 6 paper cups



How many BD packs should I buy so that each classmate can get one thing from the list? 1 classmate needs one thing from the list, and that means that 1 pack can be enough for 6

classmates. But how many packs should I buy so that everyone will have a thing from the pack?

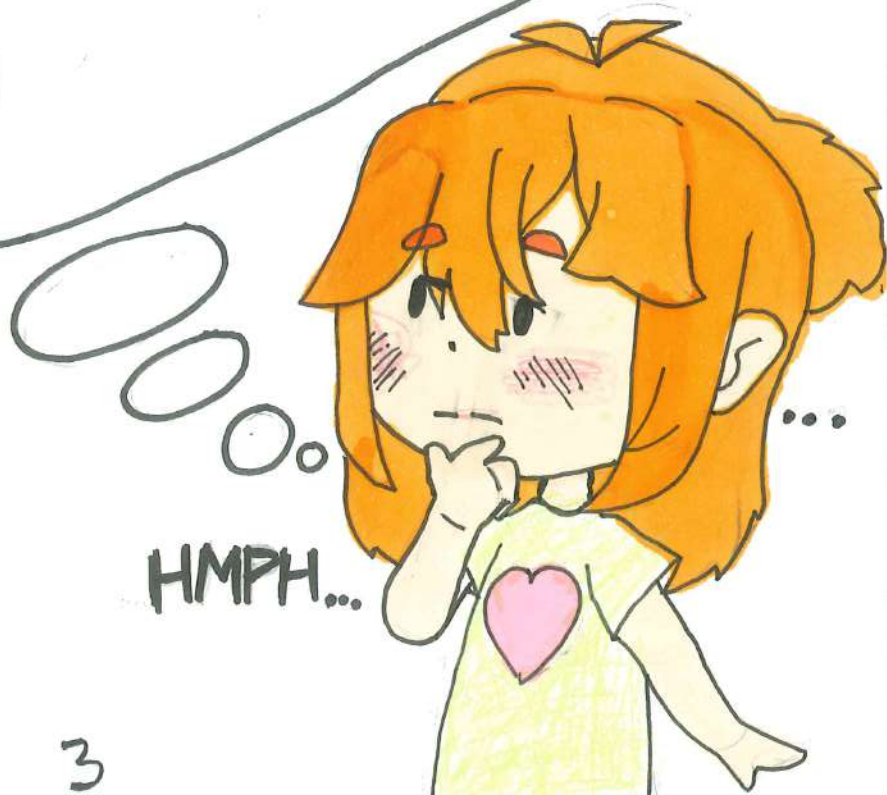


6 can fit 4 times in 24

$$\begin{array}{l} \text{Ex. } 6 + 6 = 12 \\ 12 + 12 = 24 \\ 6 \times 4 = 24 \end{array}$$

But that won't be enough for 24 people!

That means that four packs should be enough for 24 people!

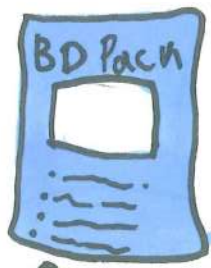


Klee has the birthday supplies.
But Klee don't know how much
they cost altogether.
Let's work this out together!



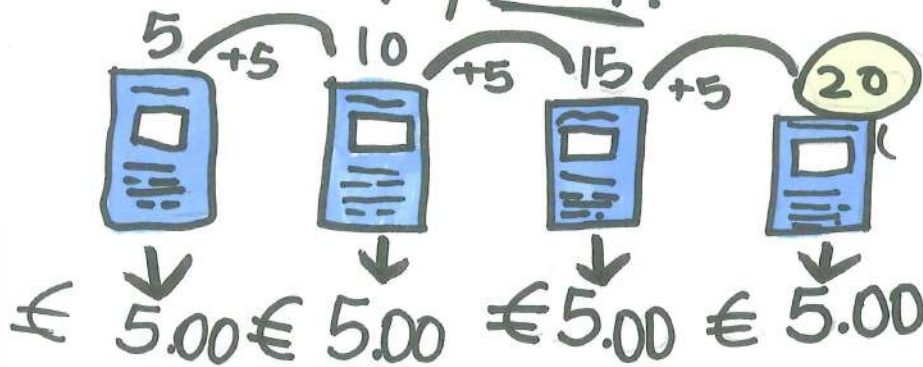
If 1 Birthday
Pack costs 5
Euro, And I
bought 4 Birthday
Packs, how many
euros does the
four packs costs
altogether?





→ €5.00

One pack costs 5 Euros. But, I have 4. Packs. That means that I have to multiply 5×4 !

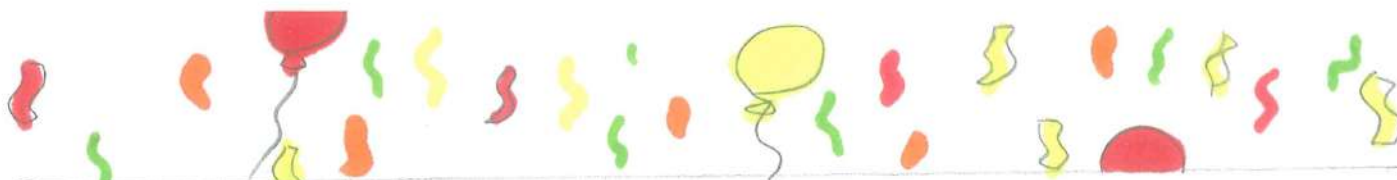


Altogether, the 4 packs costs 20 euros! My Mom gave me 50 euros, and I spent 20. $50 - 20 = 30$. I spent 20 euros, and there is 30 euros left.



Yay! Klee had an amazing birthday, and everyone had their presents. Klee is happy and eating her birthday cake now!





Klee has a birthday Party, where she invited her 23 classmates (24 including her) and her mom gave her 50 euros to buy birthday supplies. Help Klee buy these birthday supplies so that each of her classmates would get one.

Hello. I'm Sofiya Gorokhova and I am 10 years old. I'm studying at International School of Paphos (ISOP) located in Cyprus. I loved to draw since I was a baby. I also love to write and create stories.

