

1

Favourite food



Jan, Nele, Paula and Tim are good friends. In the time before Christmas, they spend a lot of time together. They often solve little puzzles.

Today every one of the 4 children explained what they like eating the most:

Chocolate pudding with vanilla sauce and cheese pasta;

Rice pudding with sour cherries and lemon sorbet;

Spaghetti Napoli and fruit salad with whipped cream;

Mashed potatoes with fried egg and fruit jelly.



Paula doesn't like eating rice. Jan likes pudding. Tim loves ice cream as desert. Nele always hopes for potatoes.

Who explained that they like eating Spaghetti Napoli and fruit salad with whipped cream the most?



Nele



Tim



Jan



Paula



All four friends like eating everything.

2

Alphabet cookies



Nele, Jan, Paula and Tim have rolled out the dough and cut out cookies.

Two big trays full of alphabet cookies are on the kitchen table.

They can even spell the names PAULA and NELE using those cookies.



How often is the letter A found on the trays?



3 times



4 times



5 times



6 times



7 times

3

Shopping in the market



Paula takes Jan, Nele and Tim to the market. She has to buy avocados and oranges.

A big avocado costs 2 euro and the oranges cost 1 euro each.

Paula has to buy 5 avocados and 4 oranges.



How much more does she have to pay for the 5 avocados than for the 4 oranges?



8 euro



6 euro



5 euro



3 euro



2 euro

4 Fresh fruit



The 4 children want to make a fruit salad. All of them bring something to make it.

Tim brings 2 apples, 2 pears and a kiwi.

Jan brings half as many apples and pears as Tim and 3 bananas.

Nele brings 2 kiwis, a banana and exactly as many pears as Tim along.

Paula brings an apple more than Tim, a pear more than Jan and double as many Kiwis as Tim.



Which fruit do they have the most of?



Apples



Pears



Kiwis



Bananas



There are equal amounts of every fruit.

5

Piles of Dishes



“I need to still clean up and put away the dishes,” Jan calls out of the window. Nele, Tim and Paula wait in front of the house to play with him.



In which order from big to small does Jan have to pile the dishes?



Striped, green, glass, brown, white



Green, striped, glass, brown, white



Glass, green, brown, striped, white



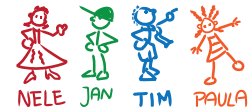
Green, glass, white, striped, brown



Green, glass, striped, white, brown

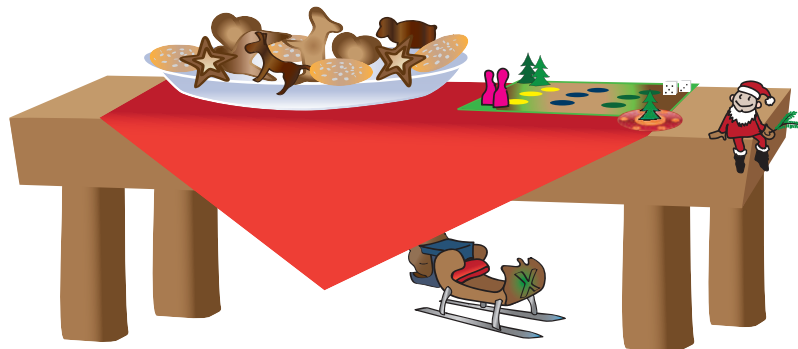
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Saint Nicholas



Nele has found a game in her stocking. She plays the game with Jan, Tim and Paula. All of them have brought snacks. They place gingerbread, cookies and chocolate figures onto a plate. Everyone is allowed to snack from the plate.

“Every time when I come into the room, there are fewer snacks,” comments Nele’s brother and smiles.



Nele’s brother was in the room five times. How did the plate look like the third time he came in?



7

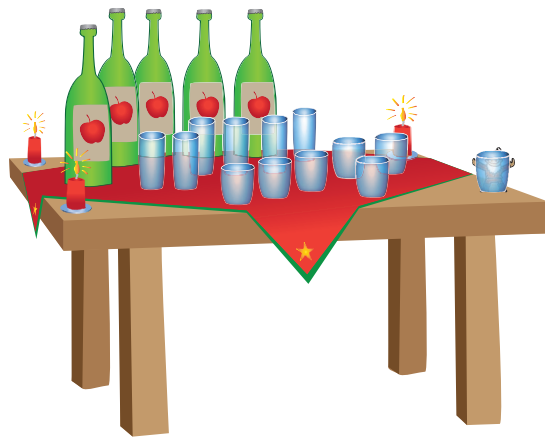
Apple Juice



Paula's father gives her class some juice from freshly squeezed apples in his garden.

Jan, Tim, Nele and Paula think about how many bottles they need. In their class there are 22 children. Every child should get a glass of apple juice.

The juice from one bottle is enough for exactly 4 glasses.



How many bottles do they have to bring so that there is enough for all children and the teacher?



3



4



5



6



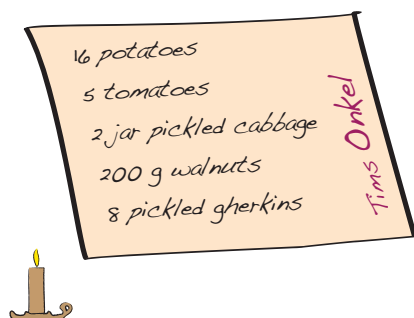
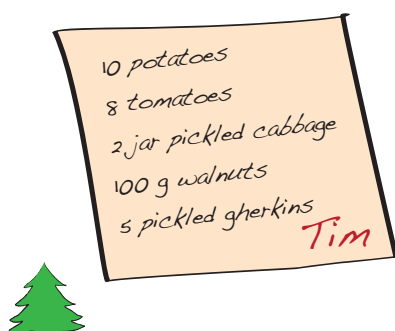
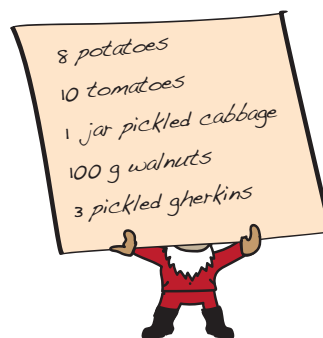
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Grocery list



Totally distracted, Tim's uncle wrote a grocery list. Instead of the number of potatoes and tomatoes that he wrote down, he only needs half as many. Of the pickled cabbage, he needs one jar more and of the walnuts he needs two times as much. He also needs 2 more pickled gherkins than he wrote down. Which grocery list is correct?



9 Pyramids



“Yesterday I dropped 2 egg cups and they broke. Now I need to go buy new egg cups,” Jan complains.

“We’re coming too!” cheer Paula, Nele and Tim.

In the left corner of the shop window there is just one single egg cup. Next to it there is a small pyramid of three egg cups. The pyramid on the right is made of 3 layers of egg cups.

Paula counts aloud “With the 3 layers of egg cups, there are 6 egg cups altogether.”



The children imagine a pyramid with 5 layers. How many egg cups would there be in that pyramid?



10 Cocoa



Nele, Paula, Jan and Tim go on a fieldtrip to the forest.

Quickly, they take off their jackets and go into the warm hut.

On the table there is already a big pitcher of Cocoa.

Nele places cups and saucers onto the table: 2 white and 2 yellow cups as well as 2 red and 2 blue saucers.



How many possible combinations of cups and saucers are there for the 4 children to lay out?



3



4



5



6



7

11

Potato soup



Paula, Nele, Jan and Tim help Jan's grandmother cook potato soup. There are 13 potatoes to peel and 8 big carrots to wash.



Nele and Paula begin.

When they've peeled 7 potatoes and washed 3 carrots, they change with Tim and Jan.

How many carrots and how many potatoes are still left for Tim and Jan to prepare?



3 potatoes und 5 carrots



6 potatoes und 5 carrots



5 potatoes und 6 carrots



5 potatoes und 3 carrots



6 potatoes und 4 carrots

12

Movie afternoon



Tim, Nele, Jan and Paula meet for a movie afternoon. Tim's uncle has found some fairytale movies while cleaning up. They chose one of them for the afternoon.

In the kitchen, everyone takes a plate and places 5 pastries onto each plate: Macaroons, pretzels or waffles.

Jan chooses 2 small pretzels and 3 macaroons. Which plate belongs to Jan?



13

Cutting cake



Jan has placed Paula's fantastic birthday cake onto the table. Tim is allowed to help Paula's mum first with the cutting of the cake. Nele, Jan and Paula are also allowed to help.

Everyone cuts exactly once through the big whipped cream blob in the middle of the cake. They cut from one side of the cake, to the other. Then the cake is turned a little.

They all cut very neatly and turn the cake as they cut it, to ensure that everyone gets as equally sized pieces of cake as possible.



In how many pieces have the 4 friends cut the cake?



in 4 pieces



in 6 pieces



in 8 pieces



in 10 pieces



in 12 pieces

14 Chocolate



Nele has given Paula a bar of chocolate for her birthday.

“It is going to be shared,” decides Paula.

Tim, Jan, Nele and Paula herself are meant to snack on one piece of chocolate every day until the bar of chocolate is finished. Today, on Monday, they start with their first pieces.

The bar of chocolate is 4 pieces wide and 5 pieces long.



On which day will the last piece be eaten?



On Wednesday



On Thursday



On Friday



On Saturday



On Sunday

15

On the oven tray



“Look at what funny, weird, crooked cookie cutters I have found!” says Paula excitedly.

“They have 5 sides,” notices Nele.

“But when you turn the cookie cutters carefully, they fit together really well strangely enough,” Tim predicts.

“You can see that on the oven tray,” Jan says decisively.



“If we continue to lay them out so carefully, we can fill up the tray nearly without a gap!” Paula says excitedly.

How many cookies will they still need for that?



10



11



8



6



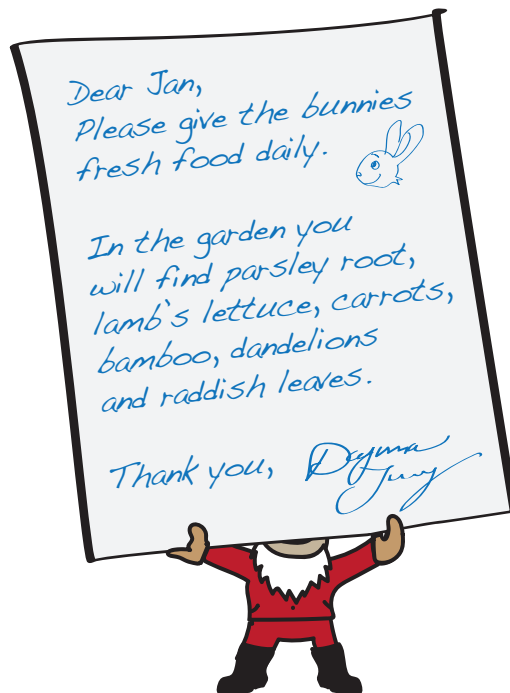
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16

Feeding Bunnies



Tim is taking care of his neighbour's bunnies for a few days. Nele, Paula and Jan help him. In a little rack they find some hay. Jan fills the water bottle daily. The daily diet for the bunny is on a paper for him.



“There should be lots of variety in the food for the bunnies,” Nele suggests.

“Yes,” agrees Paula, “we should pick two things daily from the list that we will give the bunnies.”

How many combinations do the friends have to pick two different fresh foods for the bunnies?



10



12



16



15



20

17

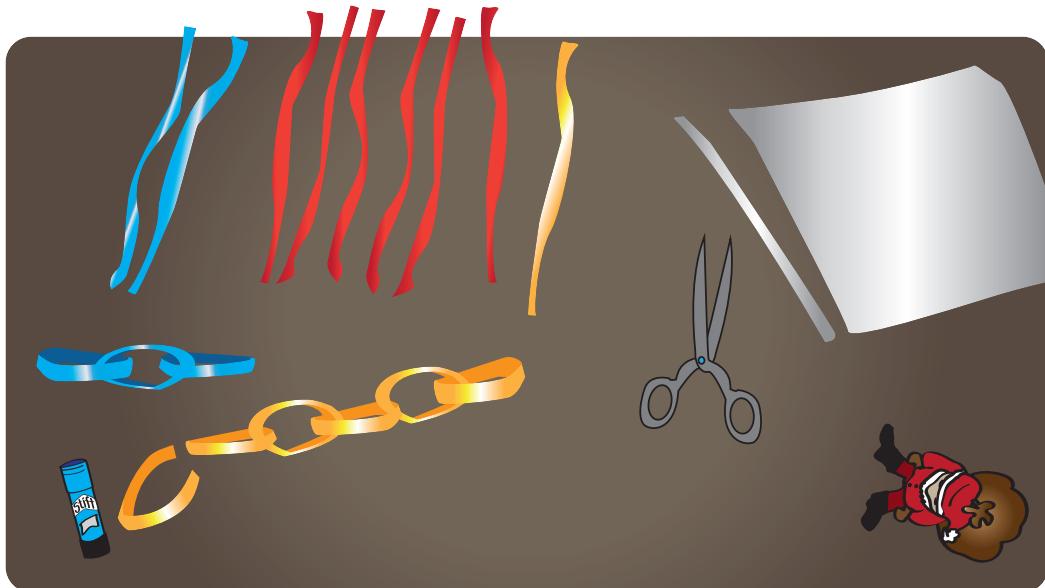
Garland



There is a fir tree in front of the school. It needs to be decorated for Christmas. The children create handicrafts for it. They cut red, light blue, yellow and silver tin foil into strips.

Jan glued a red chain made of 6 strips, Tim a yellow chain made of 7 strips, Nele a light blue chain made of 5 strips.

Paula cut silver strips. She wants to use them to join the chains of her 3 friends into one long chain.



How many strips are there in the new joined up chain?



16



17



18



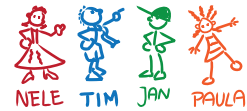
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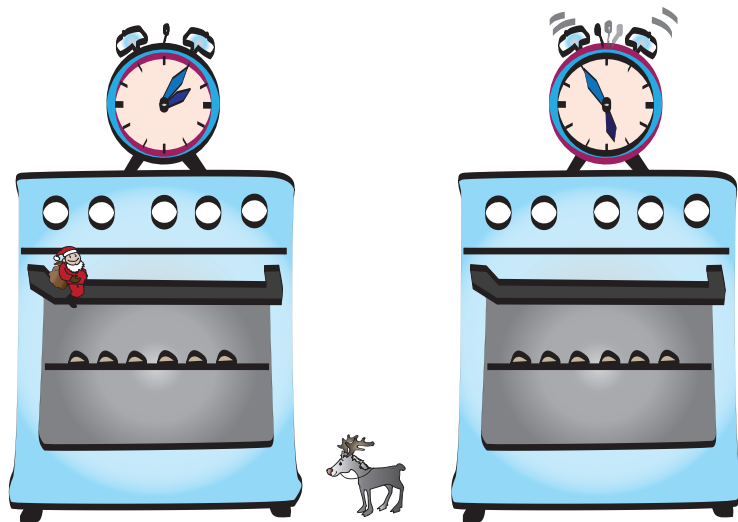
Baking macaroons



Christmas is just around the corner. Nele, Tim, Jan and Paula meet again today to bake.

Jan's mother puts the first tray of macaroons in the oven at 5 minutes past 2:00 pm.

Meanwhile, Tim and Nele knead new dough. Paula and Jan shape the macaroons for the next baking tray. Shortly before 5:00 pm, Jan's mother takes the last tray out of the oven.



How long does the baking take?



About 1 hour



About 2 hours



About 3 hours



About 4 hours



About 5 hours

19

Favourite plate

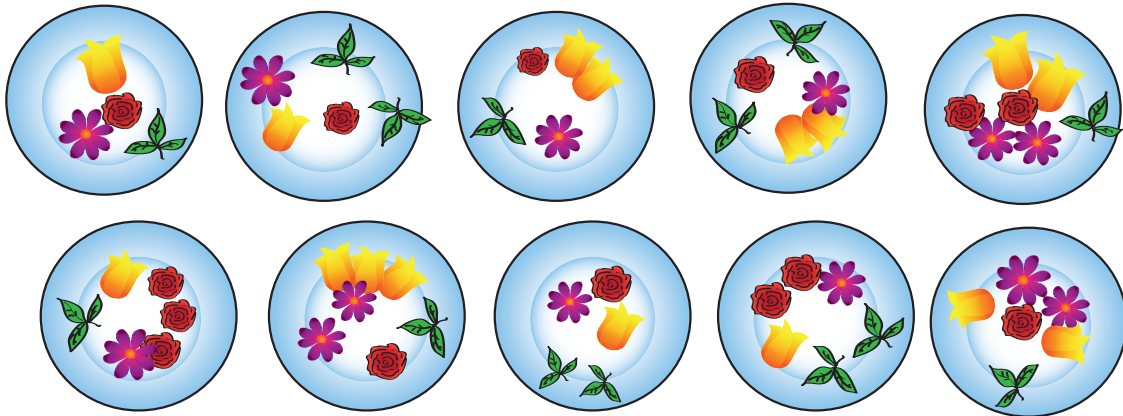
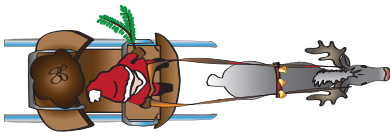


"These are my favourite plates," Paula explains to her friends, while emptying the dishwasher.

"I like these too," says Tim.

"I definitely like them too as there are so many flowers on them," agrees Jan.

"Yes, sometimes more, sometimes fewer," Nele notices.



On how many plates are there exactly 4 flowers?



on 2 plates



on 3 plates



on 4 plates



on 5 plates



on 6 plates

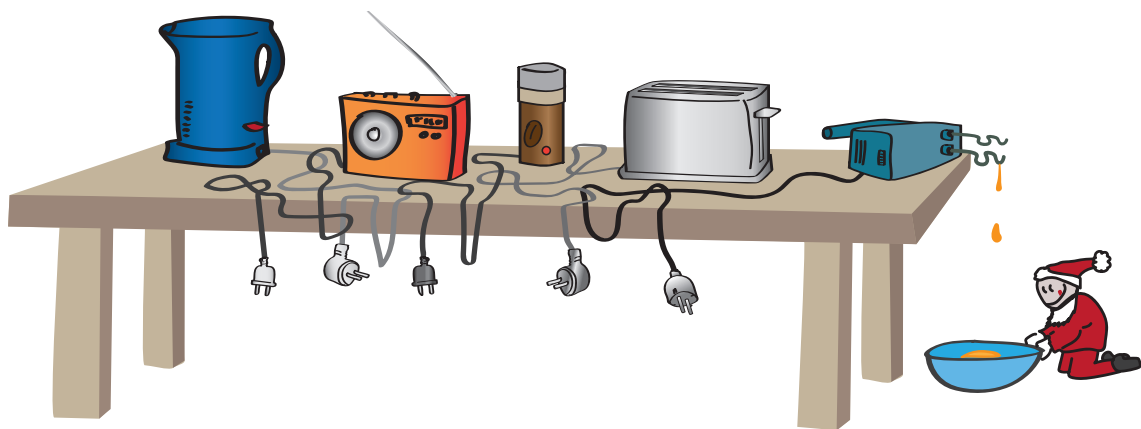
20 Tangled cables



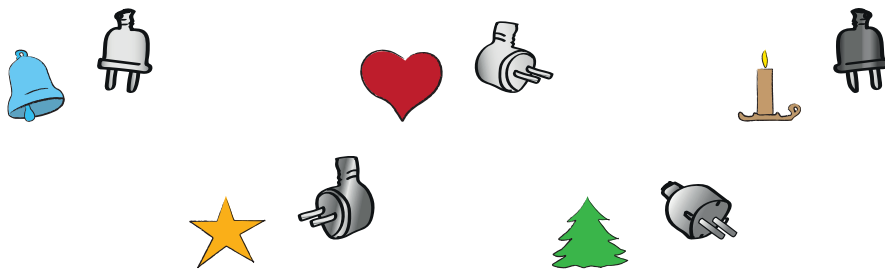
When Tim, Paula, Jan and Nele enter Tim's uncle's kitchen, there is a huge mess. His uncle renovated during the weekend. Now, it is time to clean up.

"Could you please organise the tangled cables on the table?" Tim's uncle asks of all of the friends.

Of course they help.

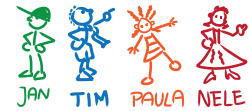


Which plug belongs to the kettle?



21

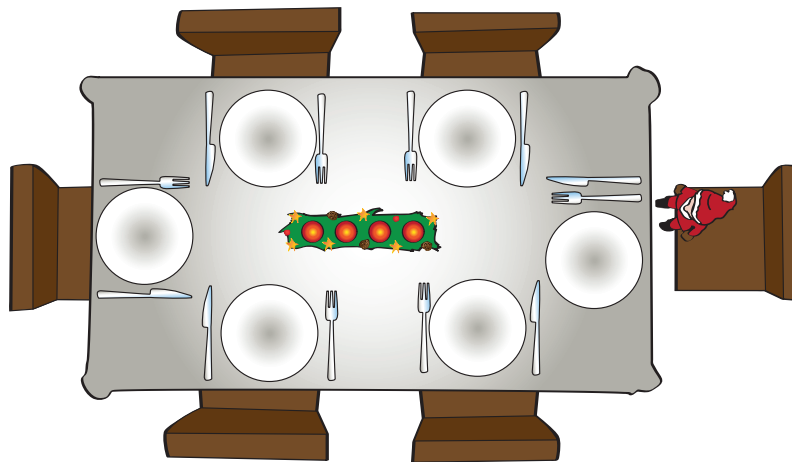
Knife and Fork



Today, Jan cooks lunch with his big brother. They cook for Tim, Paula, Nele and 2 friends. Tim lays the table.

“You have to place the forks on the left of the plates and the knives on the right of the plates,” Nele explains.

“I will correct this,” calls Paula.



Next to how many plates does Paula have to correct something?



next to 1 plate



next to 3 plates



next to 3 plates



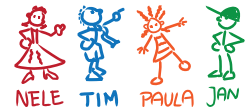
next to 4 plates



next to 5 plates

22

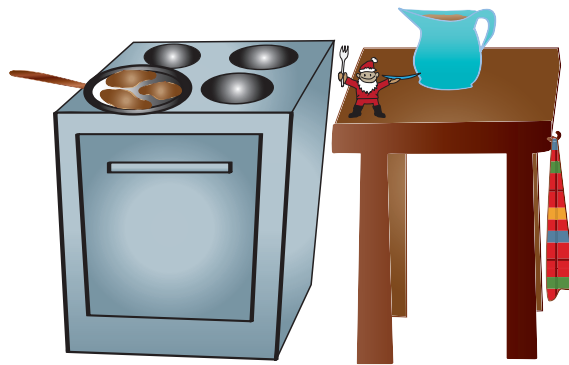
Egg pancakes



After Nele, Tim, Paula and Jan have played in the large meadow in front of the forest today, they all come to Paula's grandmother's house hungry.

There are egg pancakes.

Three pieces fit in a pan at a time. The grandmother cooks 6 times. Because the children are so hungry, she also cooks 3 pancakes each time.



How many egg pancakes did she cook altogether?



14



15



16

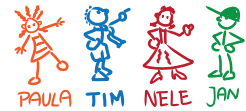


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23 Squirrels

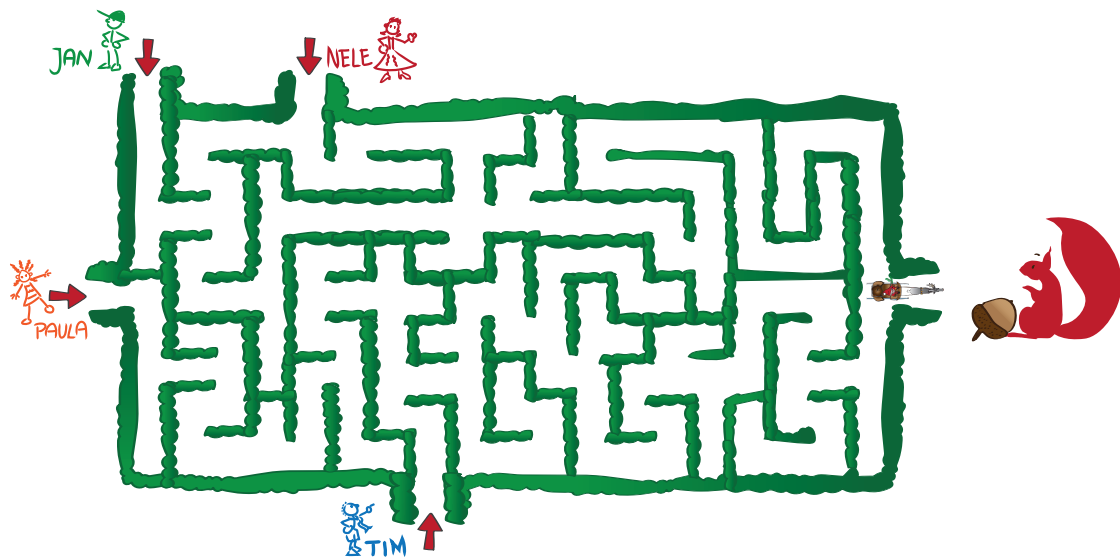


“Finally, some snowflakes,” the children cheer and run into the park to the labyrinth.

“Paula has brought some walnuts,” says Tim.

“For the little squirrel that sometimes plays by the big oak tree,” says Nele.

“Who remembers which entrance to take when you want to get to the oak tree?” asks Jan. The children each run to one entrance.



Who gets to the exit on the side with the oak tree and the squirrel?



only Jan



Nele and Jan



only Paula



only Nele



Paula and Tim

24 Christmas Eve









Now the time has finally come, it's Christmas Eve.

A few days ago, the vacations began for Tim, Paula, Nele and Jan. Every day since December 1st, the 4 friends have had a small task to solve.

Together, they have puzzled over the answers and then entered them in the grid.

They notice a special pattern.

The pattern begins with , then comes 2 times , then there is a , then 2 times , then once , then twice  and so on. The pictures that they draw come up in a pattern every time, first one and then as a pair.



This happens until the last day. Did you also notice that every day there was a little Santa Claus in the picture? Sometimes he also had his reindeer with him. How often was a reindeer with him?

**Who has the right solution pattern like Tim,
Paula, Nele and Jan?**