



At the ice cream shop, the scoops of ice cream are put on your cone in the exact order you ask for them.

QUESTION

How do you ask for this ice cream?

Could I please have ...

- A. chocolate, mint, and strawberry.
- B. strawberry, mint, and chocolate.
- C. chocolate, strawberry, and mint.
- D. strawberry, chocolate, and mint.

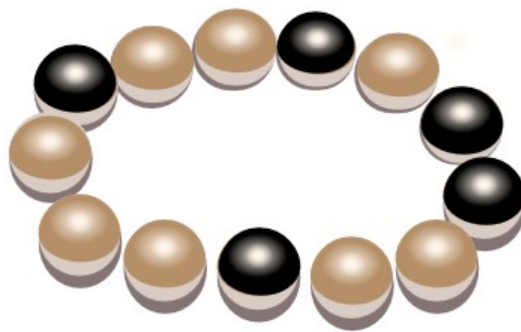




Pearl bracelet

2

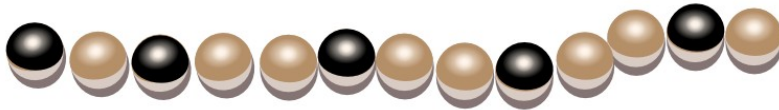
For the grand ball, a princess put on the bracelet with light and dark pearls shown below. After the ball, she unfastened the bracelet between two pearls and put it in a chest. The next evening, she wanted to put on the same bracelet but there were many similar bracelets in the chest.



QUESTION

Which of the following bracelets did the princess wear to the grand ball?

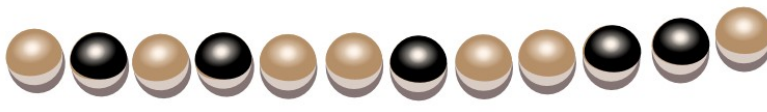
A.



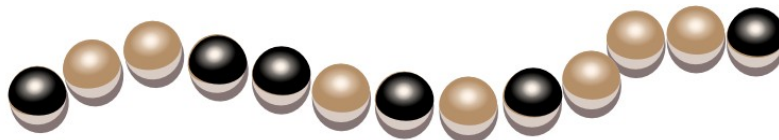
B.



C.



D.



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Select a photo

3

Johnny has 8 photos. He would like to give one of them to Bella.

He asks her 3 questions to help him select the best photo.

Johnny's Question

Bella's Answer

Do you want a photo with a beach umbrella?

Yes.

Do you want a photo where I have something on my head?

No.

Do you want a photo where you can see the sea?

Yes.

QUESTION

Which photo should Johnny give to Bella?

A.



B.



C.



D.



E.



F.



G.



H.



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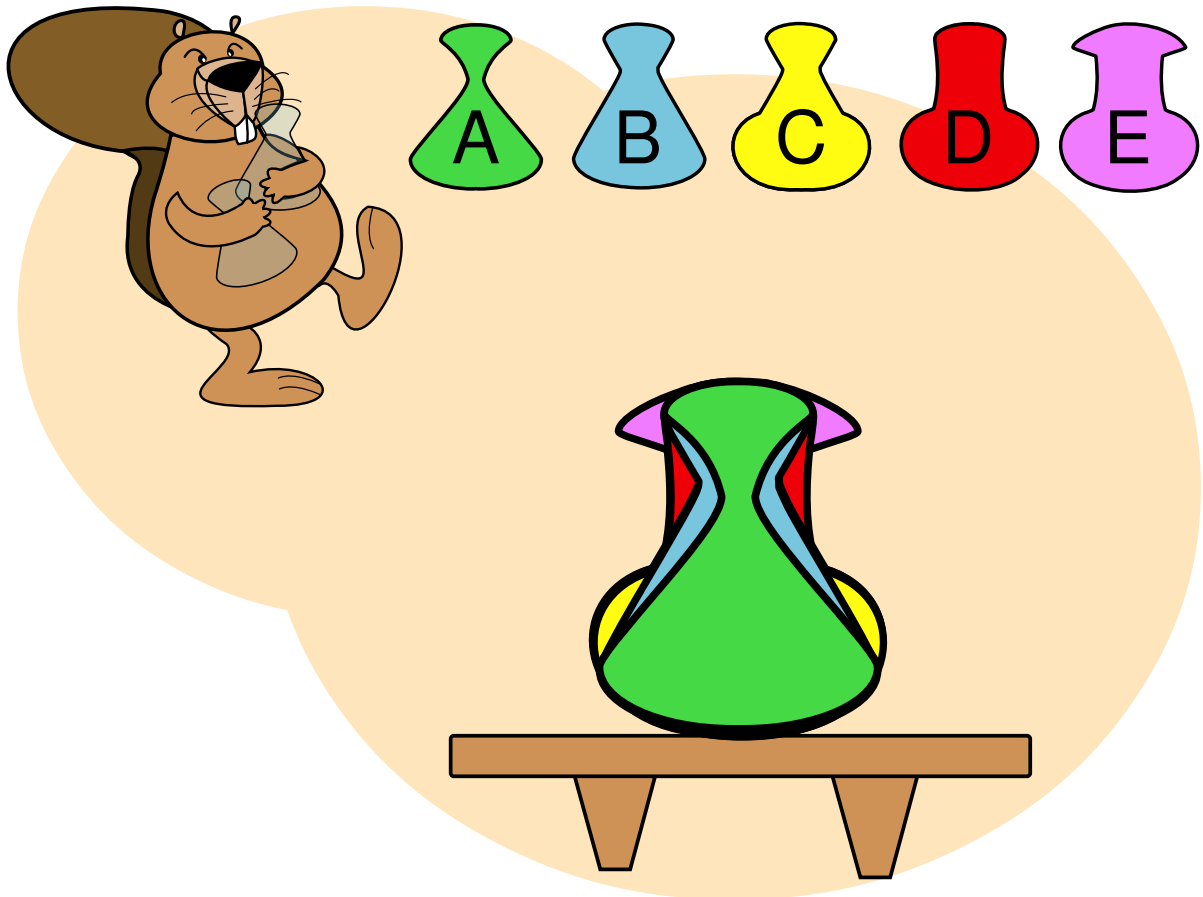




Bottles

4

Sara placed five bottles on a table one at a time. She placed the first bottle at the back of the table and placed each new bottle in front of the previous one placed.



QUESTION

The last bottle Sara placed was bottle A, as shown in the picture above. In what order did she place all of the bottles?

1. EDCBA
2. DBCEA
3. ECDBA
4. DCEBA

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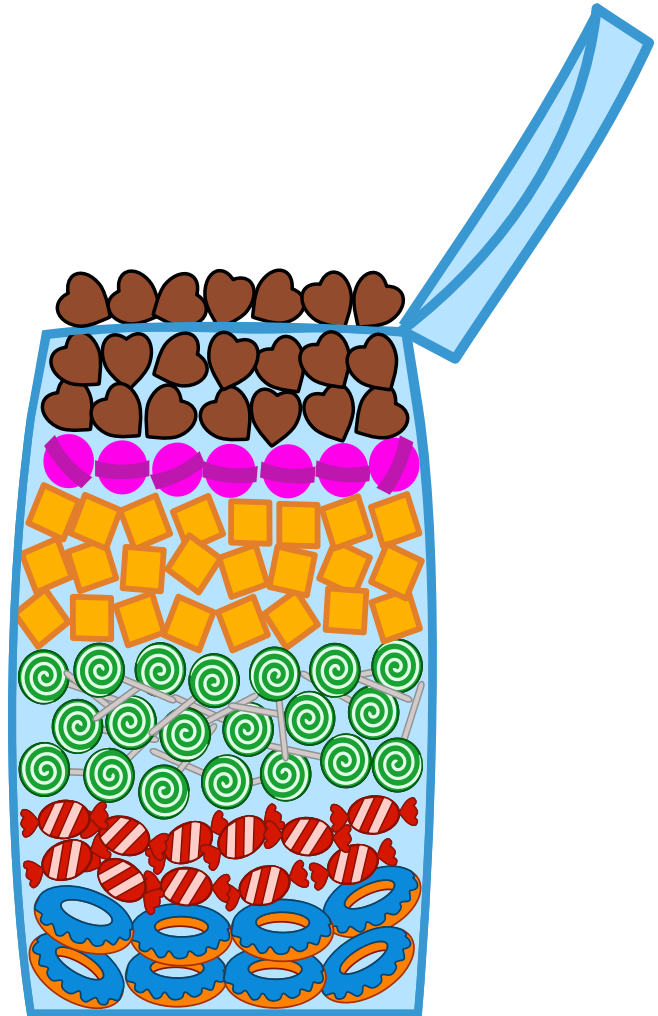




Candy jar







5

Emma has been given a lot of sweets from her grandparents. She wants to put all of them into a candy jar but when she does, the lid won't close. To make them fit she decides to remove all of the sweets of one type, but which ones?



QUESTION

Which type of sweets should Emma take out of the jar, so that she can close the lid and keep as many sweets as possible?

- A.  B.  C.  D.  E.  F. 

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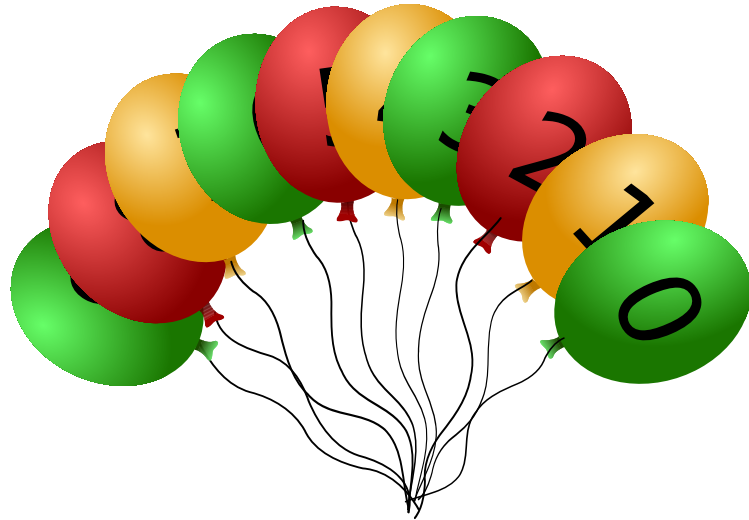




Birthday balloons 6

Mother bought ten balloons of three colours. The balloons are shown in order below.

- 0 Green
- 1 Yellow
- 2 Red
- 3 Green
- 4 Yellow
- 5 Red
- ... etc.



QUESTION

If Mother was born in the year 1983, can you pick up the balloons in the correct order to show Mother's year of birth?

- A. Yellow, Red, Green, Red
- B. Yellow, Green, Green, Green
- C. Yellow, Red, Red, Green
- D. Yellow, Green, Red, Green

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Dream dress

7

Kate wants to buy her dream dress. It must have:

- short sleeves
- more than 3 buttons
- stars on its sleeves

Four shops sell the dresses shown.



QUESTION

Which shop sells Kate's dream dress?

- A. BeaverYorker
- B. BeaverNova
- C. B&B
- D. Tom Teaver

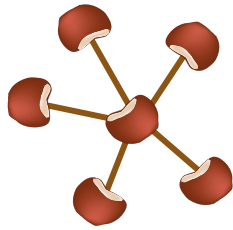




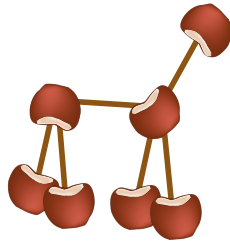
Chestnut animals 8

Tommy created these 4 animals by himself using chestnuts, strings, and glue.

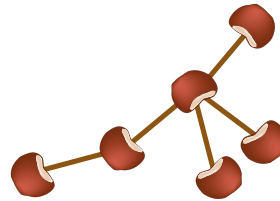
Starfish



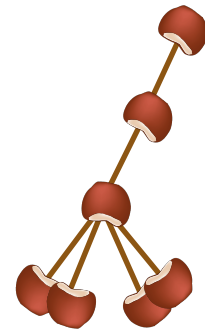
Dog



Sea lion



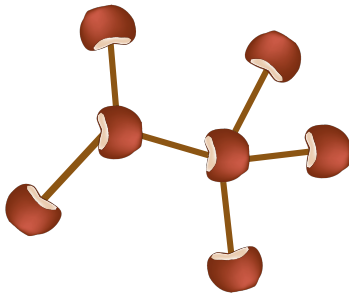
Giraffe



His sister played with one of the animals, moving the chestnuts but not breaking the strings.

QUESTION

Which animal was this before Tommy's sister played with it?



- A. Starfish
- B. Dog
- C. Sea lion
- D. Giraffe

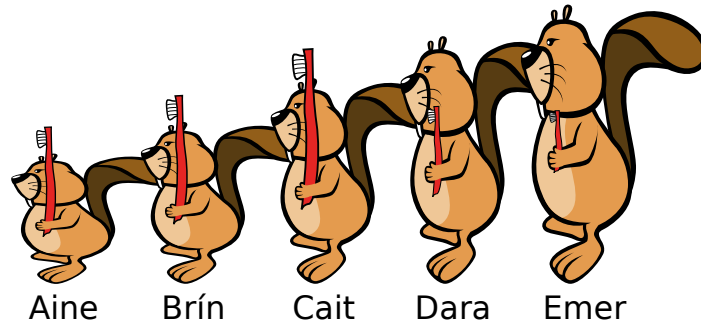




Toothbrushes

9

It is time for teeth brushing. Each child should have a toothbrush that matches their size, but look at the picture to see that each child has the wrong toothbrush.



“Not so fast!” says Mom. “Emer and Cait, please swap your toothbrushes. Next, Aine and Cait, please swap your toothbrushes.” And then she lost track.

QUESTION

Which pair still needs to swap their toothbrushes so that each child will have the correct brush?

- A. Brín and Cait
- B. Brín and Dara
- C. Aine and Emer
- D. Nobody

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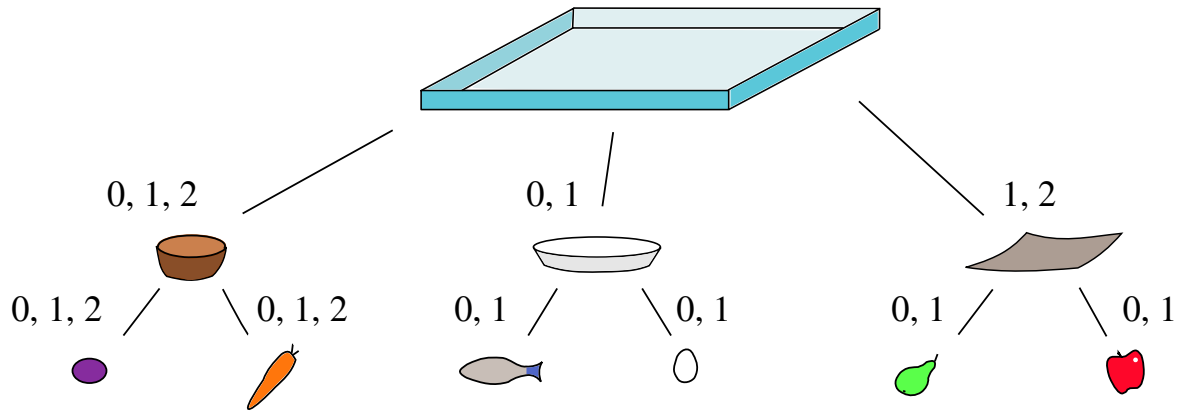




Beaver lunch

10

Hmm, what to have for lunch today? The restaurant gives instructions for how to choose a beaver lunch. This is shown as a diagram:

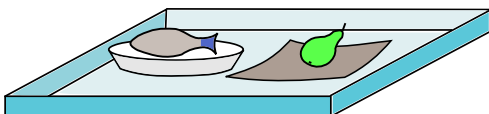


There are three different types of container can be put on a tray (brown, white, grey). Each container is used for the two food items below it. The numbers indicate how many of each type can be added. For example, a white plate can have zero or one fish and can have zero or one eggs, and there can be zero or one white plates on each tray.

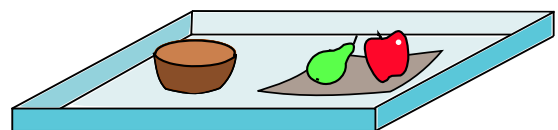
QUESTION

Which of the following lunches is not a proper beaver lunch?

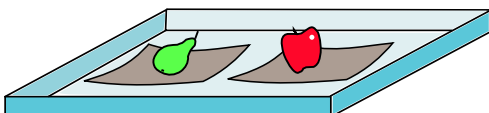
A.



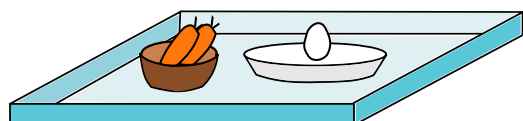
B.



C.



D.



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Betaro Beaver discovered five new magic potions:

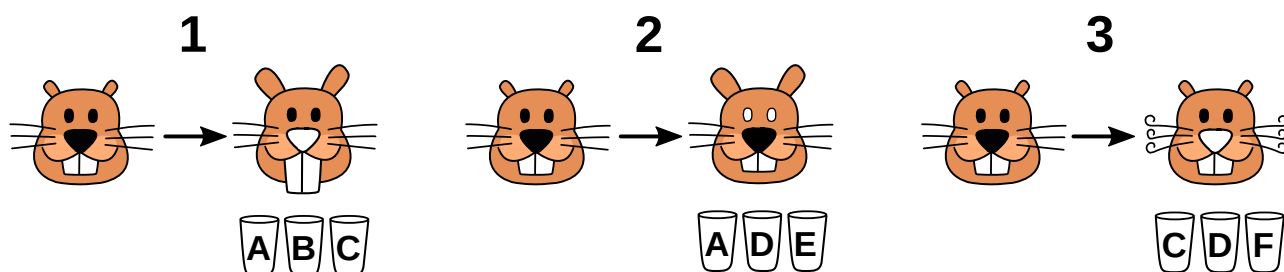
- one makes ears longer,
- another makes teeth longer,
- another makes whiskers curly,
- another colours the nose white, and
- the last one colours eyes white.

Betaro put each magic potion into a separate cup. He put water into a sixth cup. The cups are labelled A to F, but Betaro forgot which cup contains water!



To find out which cup contains water, Betaro set up the following experiments:

- Drinking from cups A, B, C together caused the effects shown in picture 1.
- Drinking from cups A, D, E together caused the effects shown in picture 2.
- Drinking from cups C, D, F together caused the effects shown in picture 3.



QUESTION

Which cup contains water, A, B, C, D, E, or F?





Rabbit holes

Beavers are going for a stroll in the woods. They walk in a line, one beaver after another. Rabbits have dug holes along the beavers' route. The holes are so deep that a number of beavers will fall in. Once the hole is full of beavers, all rest of the beavers walk across the hole. Then the beavers climb out of the hole one at the time and join the end of the line.

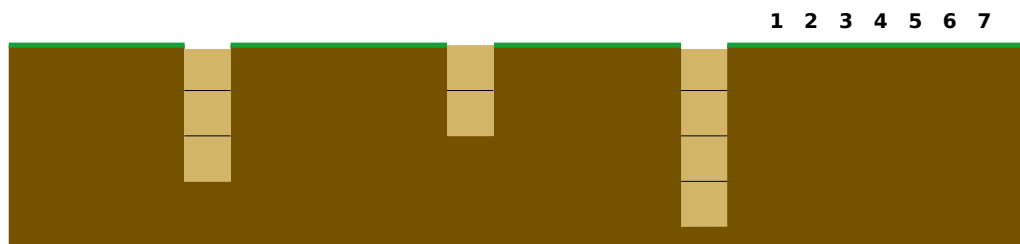
The example below shows how five beavers cross one hole deep enough for three beavers.



QUESTION

There are 7 beavers and three holes: the first hole fits 4 beavers, the second hole fits 2 beavers and the last hole fits 3 beavers. What is the order of the beavers after all three holes?

- A. 4 7 5 6 1 2 3
- B. 6 5 7 4 3 2 1
- C. 2 1 6 5 3 4 7
- D. 5 7 6 1 4 3 2





Two beavers live in lodges separated by a large forest. They send messages to each other by shooting fireworks into the sky. The beavers can shoot two types of fireworks, one after the other, and know the codes for the following five words:

Word	Code
log	
tree	
rock	
river	
food	

For example, to send the message food, log, food, a beaver would shoot:



QUESTION

How many different meanings can the following sequence of fireworks have?



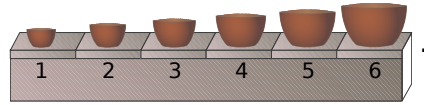
- A. 1
- B. 2
- C. 3
- D. 4



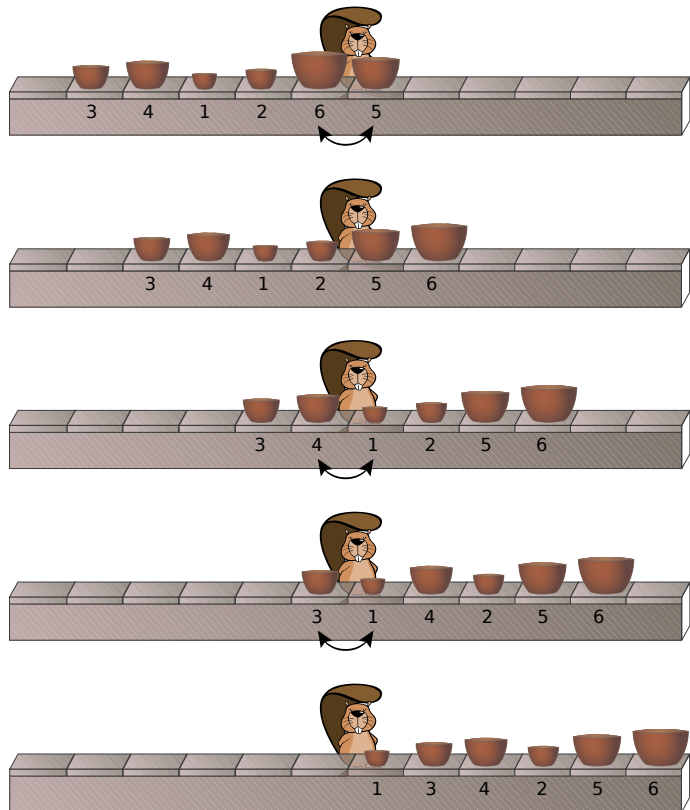


Bowl factory

A factory produces sets of 6 bowls of different sizes. A long conveyor belt moves the bowls one by one, from left to right. The 6 bowls of each set appear in a random order. Before packing the bowls, they need to be sorted to look like this:



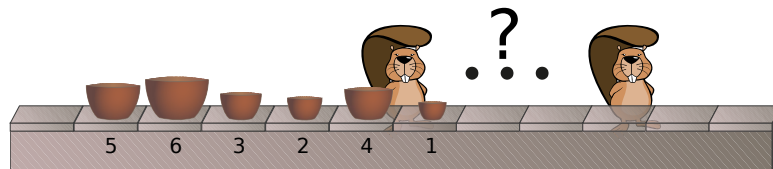
To sort the bowls, the factory places workers along the conveyor belt. When the 6 bowls pass a worker, they swap any two neighbouring bowls that are in the wrong order. The worker keeps doing this until the 6 bowls have passed. See how the order of a sequence of bowls changes as it passes one worker.



QUESTION

How many workers does this set of bowls have to pass in order to get sorted?

- A. 1
- B. 2
- C. 3
- D. 4



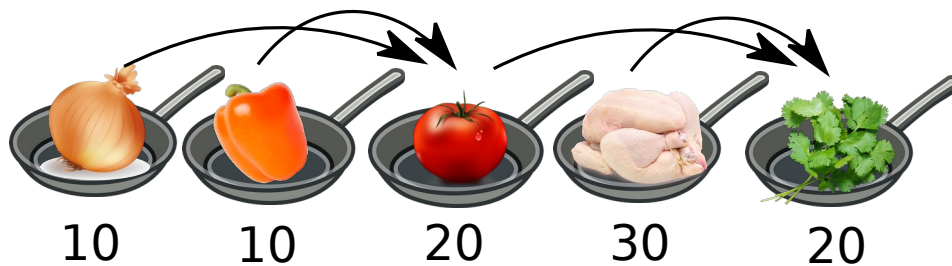
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Sergo loves to cook. His favourite meal is Chakhokhbili. When cooking in the garden he needs 90 minutes to prepare his Chakhokhbili using a single-burner hob. He performs the following actions after each other:

1	Cook an onion	10 minutes
2	Cook a bell pepper	10 minutes
3	Combine the cooked onion and cooked bell pepper, add a tomato and cook this together	20 minutes
4	Cook a chicken	30 minutes
5	Combine everything from steps 3 and 4, add some spices, and cook it all.	20 minutes



When Sergo cooks at home he uses more burners so his meal is ready quicker.

QUESTION

Which of the following statements is **NOT** correct?

- A. Sergo can reduce the cooking time by 10 minutes when using 2 burners
- B. Sergo can reduce the cooking time by 30 minutes when using 2 burners
- C. Sergo can reduce the cooking time by 40 minutes when using 3 burners
- D. Sergo can reduce the cooking time by 50 minutes when using 4 burners



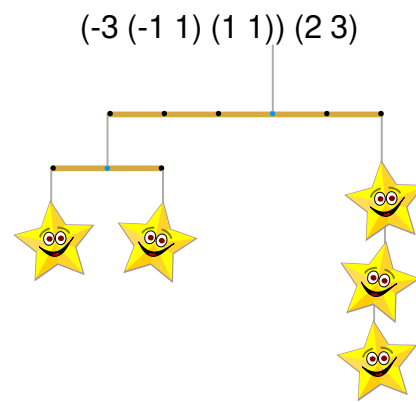


A mobile is a piece of art that hangs from a ceiling. These mobiles consist of sticks, string, and stars. Each stick has special spots where stars and other sticks can be hung. Mobiles can be fully described using numbers and brackets. Below are two examples. In both examples “(...) (...)” means a stick with something on the left and something on the right.

In the first example,

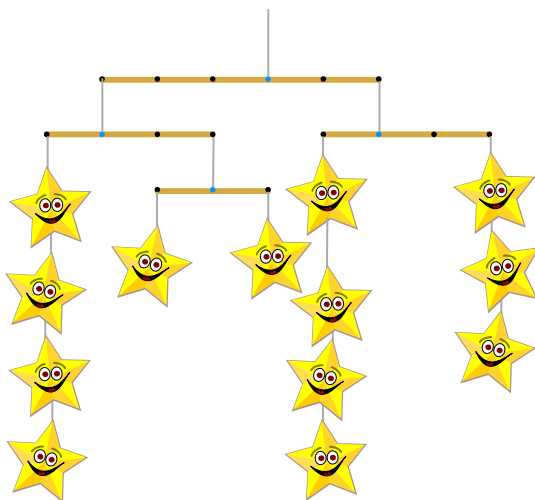
“-1 3” means “from the string go left 1 spot and hang 3 stars,” and

“1 2” means “from the string go right 1 spot and hang 2 stars.”



QUESTION

How is this mobile described, using numbers and brackets in the same way as in the examples?



- A. $(-3\ (-1\ 4)\ (2\ (-1\ 1)\ (1\ 1)))\ (2\ (-1\ 4)\ (2\ 3))$
- B. $(4\ (1\ 1))\ (4\ 3)$
- C. $(((-1\ 4)\ -3\ ((-1\ 1)\ 2\ (1\ 1))))((-1\ 4)\ 2\ (2\ 3)))$
- D. $(-3\ (-1\ 4)\ (2\ (-1\ 1)\ (1\ 1))\ (2\ (-1\ 4)\ (2\ 3))$



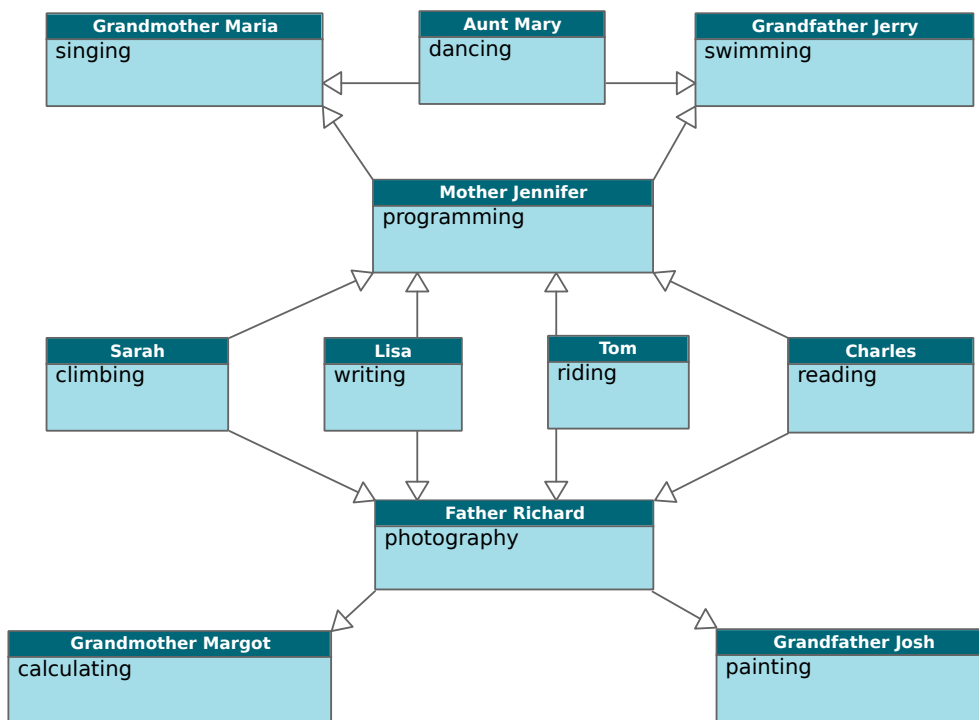


Superpower family 17

All members of a beaver family have superpower abilities.

- Each daughter inherits her abilities from her mother.
- Each son inherits his abilities from his father.
- Each family member also has one extra ability.

The diagram below shows the relationships between the beavers. It also shows the extra ability for each beaver. For example: Mother Jennifer has inherited the ability to sing from Grandmother Maria, and she also has the ability to program. Lisa inherits two abilities from her mother and also has the ability of writing. This means she can write, program, and sing.



QUESTION

Which of these statements is true?

- A. Tom's abilities are riding, painting, and photography.
- B. Sarah has abilities in reading, programming, and singing.
- C. Tom inherits from Grandmother Margot the ability to calculate.
- D. Aunt Mary has abilities in dancing and swimming.

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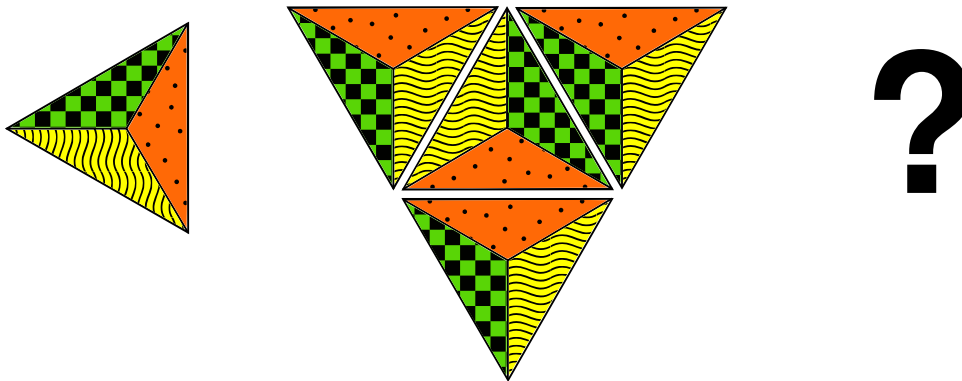




Brigid wants to create a mosaic with identical triangle-shaped tiles.

She starts with one tile. She rotates it 90 degrees clockwise and then adds tiles to match all the sides of the rotated tile, as shown in the picture below.

Then she rotates the whole shape 90 degrees clockwise again and adds tiles to match all the sides of the rotated shape.



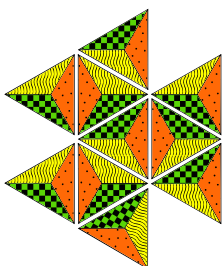
Step 1

Step 2

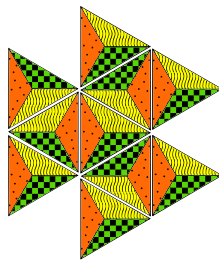
Step 3

QUESTION

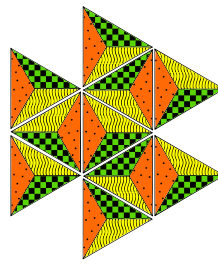
Which is the correct mosaic after step 3?



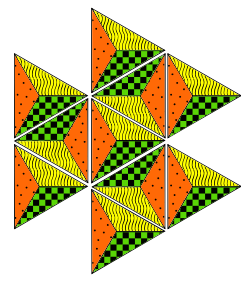
A.



B.



C.



D.

