

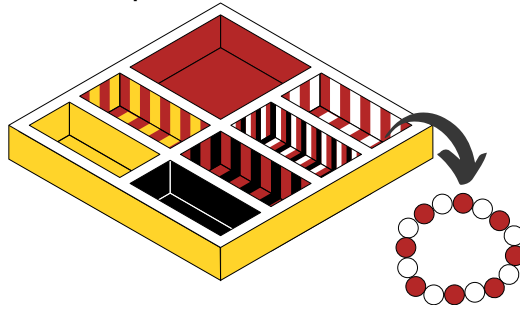
Tasks T1 – T7 carry 3 points each

T1. Organizing bracelets

Victoria has a box where she organizes her bracelets.

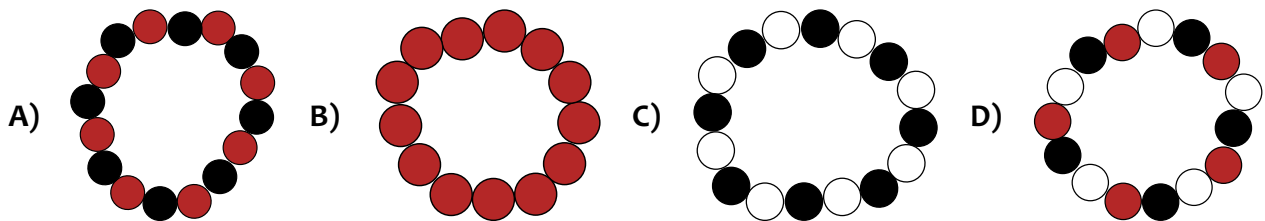
There are seven compartments in this box and Victoria puts each bracelet in a compartment with the same color pattern.

The image below shows where she puts one of her bracelets.



Question / Challenge

Which of these bracelets does **NOT** match any of the compartments in Victoria’s box?



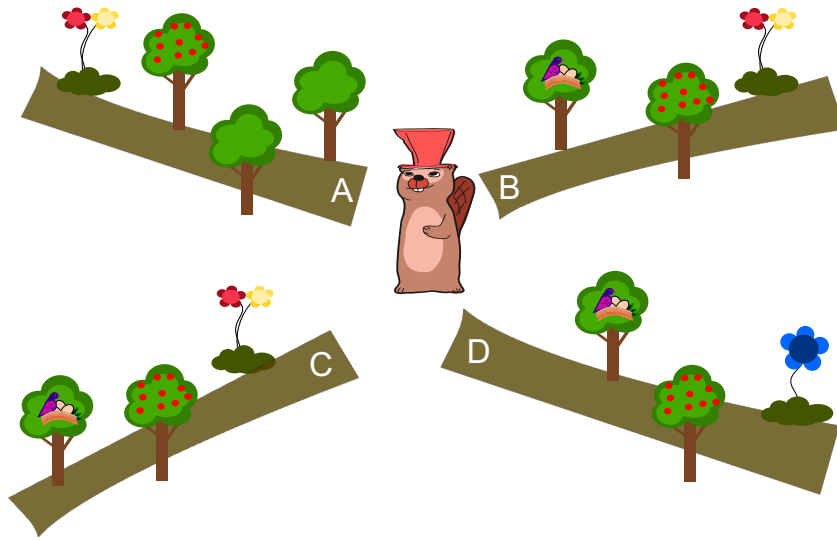
T2. Lost

Beaver Alia was playing in the forest. But when it was time to go home, she forgot which path to take. She remembered that on her way through the forest:

<p>She first saw red and yellow flowers.</p>	
<p>Then, she saw an apple tree.</p>	
<p>Finally, she spotted a bird's nest in a tree.</p>	

Question / Challenge

The picture below shows where Alia got lost along with paths leading out of the forest. Which path should Alia choose to go home?



A) path A

B) path B

C) path C

D) path D

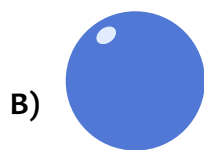
T3. Birthday Present

Fiona wants a ball for her birthday. She wants the ball to:

- Have no stripes
- Have a star on it
- Have no moon on it

Question / Challenge

Which ball should we buy for Fiona?



T4. Ricca Cards

Barbara collects cards showing monsters called “Riccas”. All Riccas have attributes such as name or the number of eyes. Each Ricca is different, so the values of the attributes sometimes vary. Here are three sample cards showing some of these attributes and values:



Each value of an attribute is noted in a specific kind:

attribute	kinds of attribute values
	values are given as text
	values are given as X or ✓
	values are given as numbers

Question / Challenge

On which card all values correctly match their attribute's specific kind?

A)

B)

C)

D)

T5. Coloring page

Bea started with five full tubes of colored paint. In her painting, the larger the total area of one color, the more paint of that color she used.

When Bea was finished, this is how much of each color was left in each tube:



Question / Challenge

Which painting could be Bea's?

A)

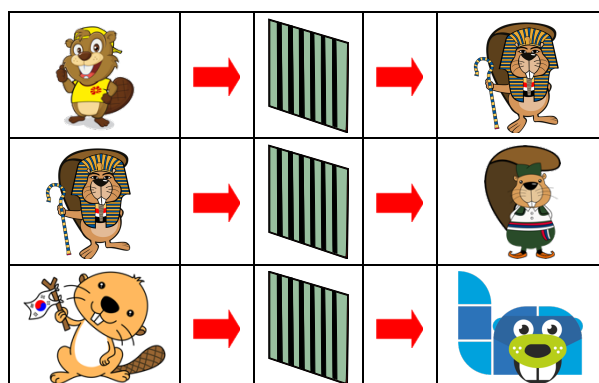
B)

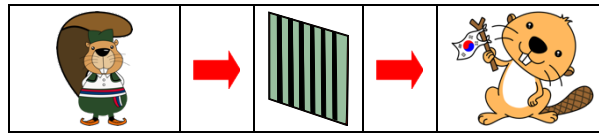
C)

D)

T6. Magic Door

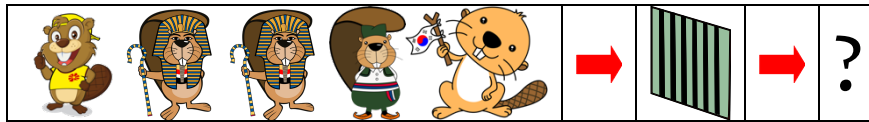
There is a magic door. When the beaver passes through the magic door, it changes into a different shaped beaver, as shown below.





Question / Challenge

If the beavers pass through in the following order, what is the result in the shape?



- A) C) B) D)

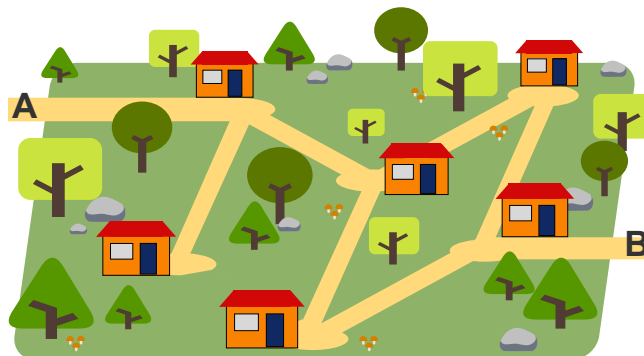
T7. Traffic Nuisance

Cars drive through the village shown below to get from A to B.

Some villagers are annoyed by the noise.

The mayor has received the exact same complaint from multiple houses:

“Every car that drives through our village drives by my house.”



Question / Challenge

How many houses could have sent this complaint?

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

Tasks T8 – T14 carry 4 points each

T8. Pizza Party

John throws a pizza party. He knows the favorite pizza toppings of his friends:

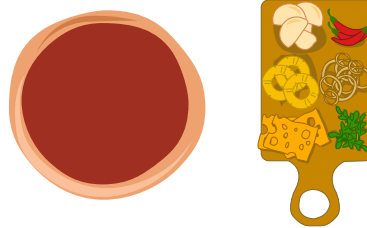
Alice wishes	(red pepper)	(Mushrooms)	(Cheese)
Bob wishes	(Mushrooms)	(Pineapple)	(Onions)

Charlie wishes	 (Mushrooms)	 (Rocket Salad)	 (Cheese)
Dana wishes	 (Mushrooms)	 (Cheese)	 (Onions)

John wants to make one pizza with 3 toppings. He wants to choose the 3 toppings so that the maximum number of wishes overall is satisfied. Then his friends will be happy.

Question / Challenge

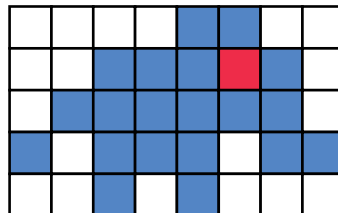
Which pizza contains the 3 toppings that make John's three friends happy?



- A)
- B)
- C)
- D)

T9. Array Blanket

There is an array blanket which is divided into squares. Beaver paints a blue elephant by coloring some squares.



The wind has blown the blanket so it is no more lying flat.

Question / Challenge

Which of following could be the Beaver's blanket?

- A)
- B)
- C)
- D)

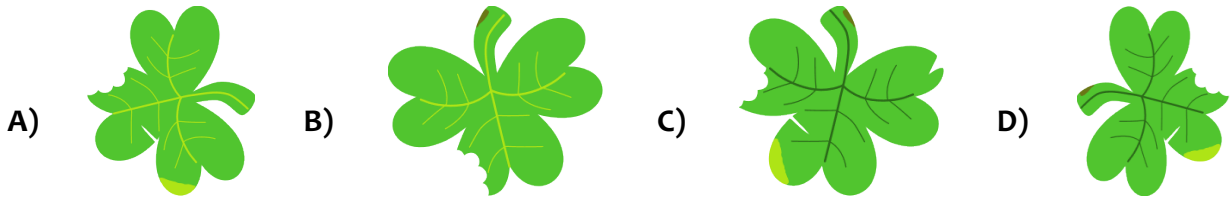
T10. Spinning shamrocks

Séamus dropped his favourite shamrock on the ground. Now it is mixed with other shamrocks, and might even be face-down! You can tell face-up by the lighter leaf veins and face-down by the darker veins. Below is a photo of Séamus' shamrock face-up.



Question / Challenge

Which is Séamus' shamrock?



T11. Ana's Drawing

Ana is creating a picture using a drawing application, by doing the following steps:

Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7

After completing all the steps, she got this result:



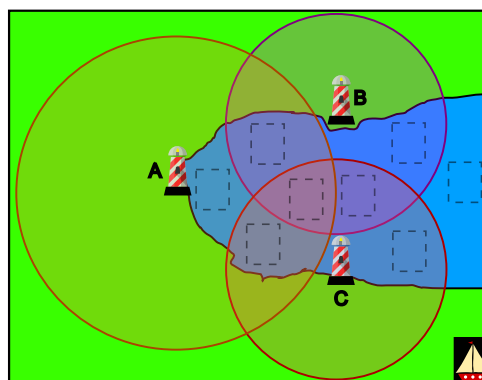
Question / Challenge

Ana wants to remove some elements from her painting, so she goes 3 steps back. Which of the options below shows Ana's drawing after going 3 steps back?



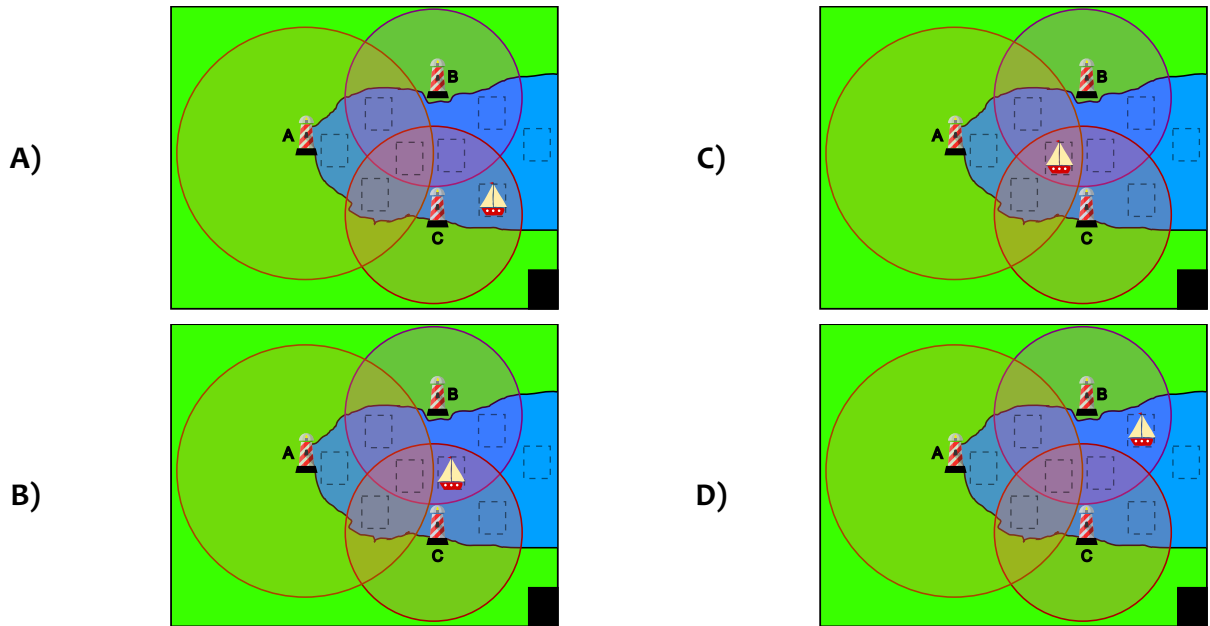
T12. Map of lighthouses

Captain Ben is on his ship. He has a map of the harbor but he does not know where he is on the map. The circles on the map tell Captain Ben where he can see the lights of each lighthouse. Using the lights, the captain can find out where he is.



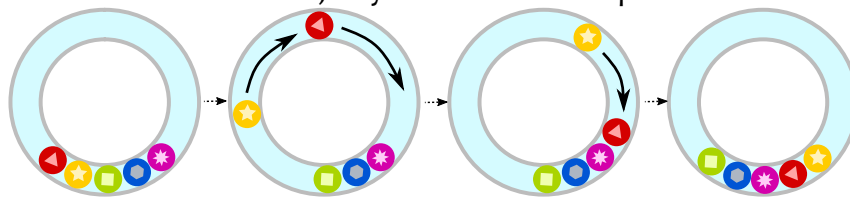
Question / Challenge

Captain Ben can see the lights of lighthouses B and C. He can't see the lights of lighthouse A. Where is the Captain Ben with the ship on the map?



T13. Oliver's Rattle

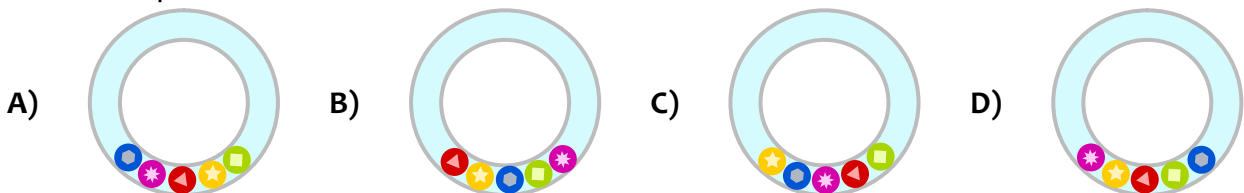
Oliver has a see-through rattle with colorful balls. When he shakes it, some balls go through the rattle and move to the other side, as you can see in the picture.



Oliver shakes the rattle one more time.

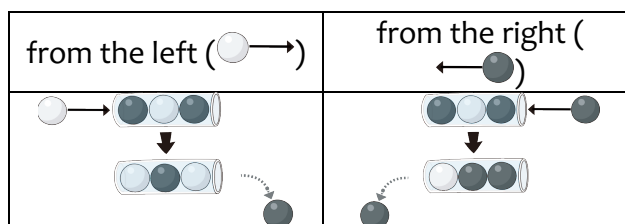
Question / Challenge

Which picture shows Oliver's rattle?



T14. Tube

There is a tube () with holes on both sides that can be filled up to 3 balls. The following images show what happens when three balls are in the tube and we try to put a fourth ball in it:



This tube is now filled as follows:

Question / Challenge

How would this tube look like after putting 4 balls in the following order?

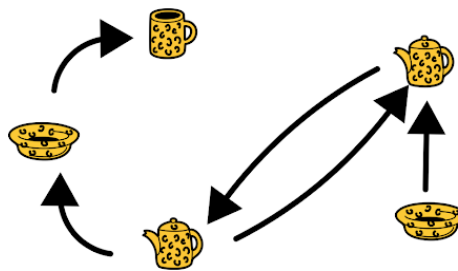


- A) B) C) D)

Tasks T15 – T21 carry 5 points each

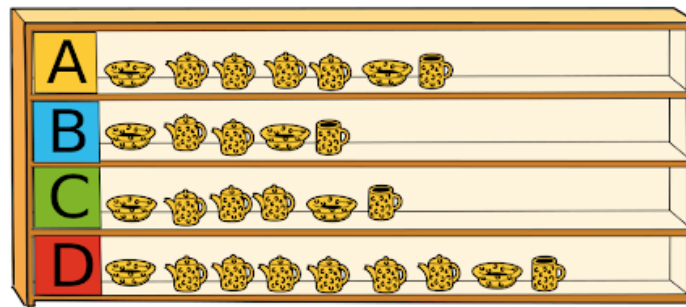
T15. Dishes on the shelf

A robot has to put dishes on the shelf according to the given steps:



Question / Challenge

Which one of the shelves has the dishes incorrectly ordered?



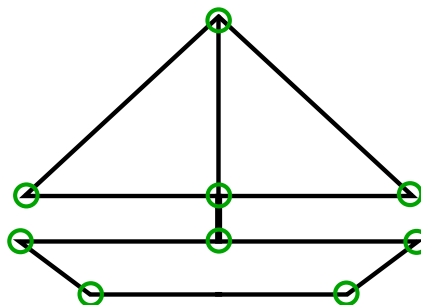
- A) A B) B C) C D) D

T16. Drawing a sailboat

Sophie wants to redraw the lines of her sailboat drawing.

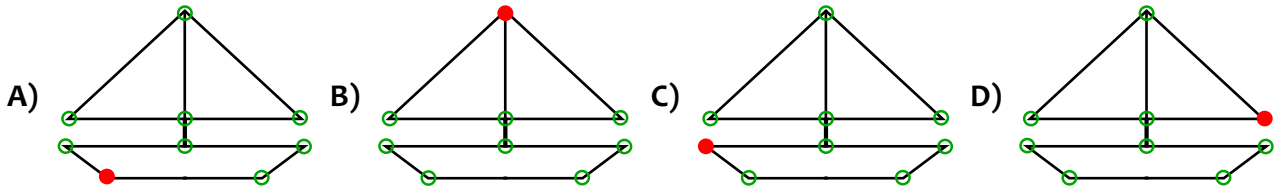
She decides to follow these rules:

- She can't take the pen off the paper.
- She can't draw on the same line twice.



Question / Challenge

From which point (the red one) should Sophie start drawing?



T17. Ice Cream Shop

A cool new ice cream shop with self-service has opened! You can get an ice cream with different flavors. To place an order, you push the arrow buttons to move the robot to the flavor you want and then press to pick up a scoop. After you have picked up three scoops, the robot brings you the ice cream.



The robot always starts from the middle of the bottom row.

This sequence makes an ice cream with the flavors

chocolate, plums and coffee.

Question / Challenge

What flavors do you get when you order an ice cream with this sequence?



- A) B) C) D)

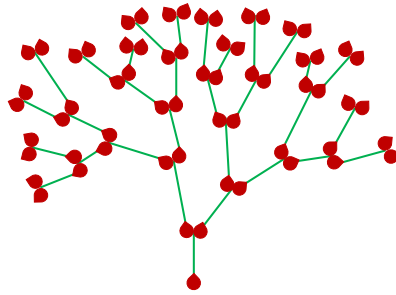
T18. Miracle Flower

At sunrise, one stem grows from each new bud of a miracle flower. The stem continues to grow throughout the day. At sunset, the stem branches into two new miracle flower buds and stops growing. This continues day after day and the miracle flower becomes more and more magnificent.

New bud before sunrise	Miracle Flower after sunset (first day)	Miracle Flower after sunset (second day)

Question / Challenge

How many days has this miracle flower been growing?



A) 5 days

B) 11 days

C) 16 days

D) 32 days

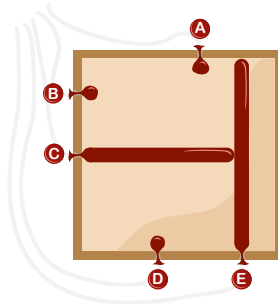
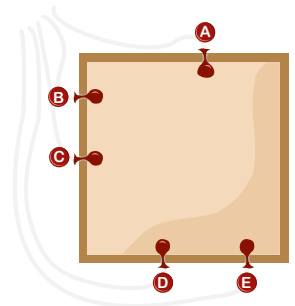
T19. Balloon Machine

The beavers have a machine that creates images by inflating balloons in a square frame, with all the balloons deflated at the start.

Each balloon is inflated until it reaches an obstacle, either the opposite edge of the frame or another balloon.

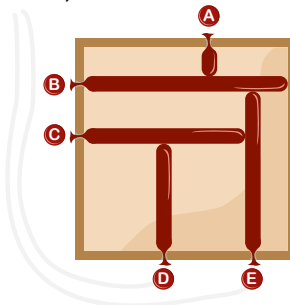
The machine reads letters of balloons and inflates the balloons in that order.

For example, the sequence E C creates this image.



Question / Challenge

What is the correct order of the letters, so that the machine creates this image:



A) BACED

B) BECDA

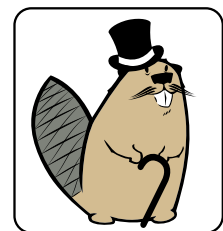
C) BDECA

D) BCAED

T20. Alfred at the City Hall






When Alfred, a famous beaver, was invited to the city hall, a photo was taken.

4 social media influencers wrote various statements about him. Not everything we read on social media is true.



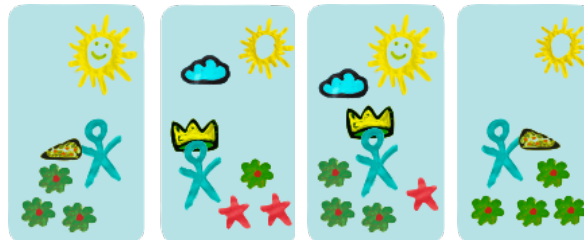
Question / Challenge

Which one of the following statements from the influencers is true?

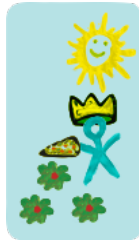
- A) Alfred wore a top hat  but he did not carry a walking stick ?
- B) Alfred may have worn a tie  or may have carried a walking stick ?
- C) Alfred wore a top hat  and a bow tie 
- D) Alfred wore a bow tie  or did not carry a walking stick ?

T21. Masterpiece Match

Manas creates drawings on his cards following one single secret rule. He has created four cards that obey this rule:



Anil observes the cards and creates a **new card**, but Manas says **it does not obey** the rule.



Question / Challenge

Which of the following could be the secret rule that Manas follows for drawing cards?

- A) If it is cloudy, then there are no flowers
- B) There must either be a red star or the man eats a pizza.
- C) If the man eats pizza, then he does not wear a crown
- D) There must either be a smiley sun or a cloud.

END