



# BRAIN BATTLE

5 topics 10 questions

*5 R - refuse; reduce; repair (re-use); recycle; replays or reject*

Rules:

Each stage contains 10 questions, each of which you have 1 minute to answer.

Write the answers (clearly and legibly) on the slips and submit them to the jury for evaluation after each step.

1 correct answer = 1 point.

Questions are not repeated, no extra time is allocated. The use of telephones is strictly prohibited.

If we spot fraud - minus the scores!

## 1. Refuse

1. TRUE OR FALSE. If all Germans could do without „coffee to go“, would be felled 4300 fewer trees each year. (TRUE)

2. What is an alternative to disposable flatware? (**Sugar cane plastic**)

3. What are the benefits of closed-cycle management? ( **Environmental protection, economic pay off**)

4. List 5 reasons why is needed to refuse single-use plastic. (**Made from fossil fuels, huge carbon footprint, will still be here in hundreds of years, only a tiny percentage is recycled, leaches toxins into food and drink, causes hormone and disruption and cancers, pollutes our oceans, kills marine animals and birds, enters our food chain**)

5. What is being written about? This means not accepting things, that are not the best option for the environment (**REFUSE**)

6. How much waste will humans produce per day in 2100? ( **11 million**)

7. How much waste per capita is created in Lithuania?

a. 1500 kg

b. 453 kg

c. 1000 kg

d. 548 kg

**(b - 453 kg)**



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8. What does it mean a “pollution pays” principle? (Producer has to pay for waste treatment or disposed.)
9. What is problem, related to collection and waste recycling from the yellow bin ? **(Financing)**.
10. Since 1990, the dual system in Germany has ensured, that sales packaging is recycled. What is the commonly used name for this recycling system?
  - a) - the green arrow
  - b) - the green tree
  - c) - the green dot
  - (c) - the green dot)**

## 2.Reduce

1. TRUE OR FALSE. Five Polish students created an App Nextplease for free book exchange. **(False, only two students created an App)**
- 2.What is the most effective way to reduce waste? **(Not to create it)**
- 3.What are the most effective ways that you can save natural resources, protect the environment and save the money? **(Reduce and reuse)**
4. List 5 benefits of reducing and reusing. **(Save energy, prevents pollution, reduces greenhouse gas emissions, helps sustain the environment, save money, reduce the amount of waste that will need to be recycled, allows products to be used to their fullest extent)**
5. What is being written about? This will help to protect valuable resources. **(REDUCE)**
6. What is the “Digital postbox” **( Is a free service which enables citizens to receive all important documents and letters from the government and some business (ex. banks) digitally.)**
7. What percentage of Lithuanians do care about using organic products?
  - a. 25 %
  - b.50 %
  - c.75%
  - d.100 %**(c. 75%)**
8. If You stack the bottles of shampoo used by German’s consumers, what it would look like? **(Like a tower of the same height as Cheops pyramid.)**
9. How many times per 10 year period Danish wind turbines had seted record? **( 9 times)**
10. It is used for the action sport, which will be in the Olympics for the first time in 2020. It is made of a specially designed maple plywood deck. It can be available in many different colours. What is it? **(Skateboard)**



### 3. Repair (reuse)

1. TRUE OR FALSE. In Denmark is more than 1062 shops which only offer clothes from reuse. **(TRUE)**
2. What components are included in reuse? **(Preparing for reuse and reuse)**
3. How many jobs creates the reuse of every 10 000 tons of material, disposed by Microsoft? **(296)**
4. List 5 environmental benefits of reuse. **(Reduction of the amount waste, pollution prevention, reduction of greenhouse gas emissions, decreased strain on natural resources, preservation on the „embodied energy“)**
5. What is being written about? This will extend its life. **(Reuse or Repair)**
6. What are the benefits of reuse projects for community? **(It helps to create community cohesion)**
7. How many tons of clothes are donated per year in Germany?

10 tons

100 tons

10 000 tons

100 000 tons

**(d. 100 000 tons)**

8. What is the date of reuse day? **(20th of October)**
9. What is the second best option in waste management (after reducing)? **( Re-using)**
10. In 1993, two brothers from Zurich, Daniel and Marcus Freitag, came up with the idea of producing FREITAG's cult "Messenger Bag" bags from recyclable materials, such as bicycle inner tubes, truck tarpaulins, seat belts and tires.

Think of recyclable materials/products and make them more valuable than processed materials.

Suggest two types of upcycling products that can be produced and sold. Maybe you have just found a great business idea.

**(Production of jewelry based on the reworking of existing resources such as colorful sheets of paper, newspapers and old unused books and production of jewelry from metal bottle caps)**





Source: <http://zielonyszlak.com.pl/zdrowy-styl-zycia/135-bizuteria-ekoryginalna>

## 4. Recycle

1. TRUE OR FALSE. Sweden use 10 % of its waste to produce energy, which is used to heat more than one million houses (False, they used 50% waste)
2. Why is recycling important? (Recycling reduces the amount of waste that is landfilled or incinerated and secures that waste material, after being transformed, forms parts in manufacturing new products ....)
3. For what purpose the steel in metal packaging can be used? (Rail rails)
4. List 5 benefits of recycling. (Reduce the amount of waste, resources lost in landfills, to collect new raw materials, prevents pollution by reducing, save energy needed to make new products, reduces greenhouse gas emissions, helps sustain the environment for future generations, helps create new well-paying jobs)
5. What is being written about? Any recovery operation taking place after collections and by which waste materials are reprocessed into products, materials or substances whether for the original or other purposes. (RECYCLE)
6. How it is called - materials recovery facility, which will be used to form new products? (Recyclate)
7. How many household waste went to material recycling in Sweden?
  - a. 1 617 640 tonnes
  - b. 10 tonnes
  - c. 1 589 tonnes
  - d. 2 000 000 000 tonnes(a)1617640 tonnes)
8. Which country is responsible for 30 % of worldwide plastic ocean pollution? (China)
9. How much ever produced plastic is still in the environment? ( 76 %)
10. In 2018, in average 74% of glass packaging was recycled in the EU. Some EU countries collect and recycle over 90% of the glass packaging. How many times can glass be recycled without loss of quality?
  - a) Once
  - b) Twice
  - c) 7-8 times
  - d) Endlessly(d. Endlessly. Bottles and jars made from glass are 100% recyclable and can be recycled endlessly without loss of quality)



## 5.Replay or reject

1. TRUE OR FALSE. In Denmark each year, the Red Cross receives more than 6000 tons of recycled clothing. (TRUE)
2. What kind of supply chain is appropriate for rebuy process? (From farm to fork)
3. How the heat of organic waste can be called in a popular way to heat organic waste? (Vermicompost)
4. List 5 benefits of replay or reject (Rent instead of buying, choose environmentally friendly alternatives if available, replace paper towels with hand-dryers or cloth towels, use durable items, use water based paints instead of solvent based paints)
5. What is being written about? To substitute a thing, that is broken or inefficient or no longer working for another. (Replay)
6. What is activy? (The first mobile game to reward cycling in the city. The solution is not only healthy but also ecological, because the more people switch to two-wheelers, the less exhaust fumes will get into our air)
- 7.Which year Denmark wake of the first Organic Action Plan?
  - a. 2015
  - b.2005
  - c.2000
  - d. 1995(d. 1995)
8. Why buying locally produced goods and services is good for environment? (Because you can reduce transportation emissions and costs)
9. What products can carry the organic logo? (Products that consist of 95 per cent or more of the ingredients from organic farming)
10. When it comes to food, there is a great deal of attention to ecology and sustainability. Based on an apple, what are the benefits of choosing an organic apple rather than a conventional one? (One reason to use organic produce is that there is more and better flavor in them. But the most important thing is that by eating and drinking ecologically you avoid, or at least reduce the amount of toxins that you get from non-ecologically foods. Ecology is food without the remnants of spray poisons and food makeup, and ecology is also a guarantee against genetically engineered food. Many geneticists even warn directly against genetically engineered food. At the same time, there are several studies suggesting that early exposure to pesticides may affect the development of the reproductive and hormone system in humans)