

5R
GREEN
TECHNOLYMPICS





European Regional Development Fund











International Olympiad "5R - Green Technolympics"

The International Technolympics calls participants from five countries: Lithuania, Poland, Germany, Denmark, Sweden!

Venue: Aula Magna (Studlendas) Klaipeda University, Herkaus Manto 90-1, Klaipeda, Lithuania

Time: 8-9th January, 2020

AGENDA

8TH JANUARY, 2020

830 - 900 - Registration

900 - 920 - Welcome words: Rector, Lead partner, Designer

920 - 930 - Technolympics program overview

930 - 1000 - Ice-breaking

1000 - 1200 - Brain battle

In parallel: 1100-1300 - 2 eco-workshops (in a lobby)

1200 - 1300 - Lunch time

1300 - 1600 - 2 rounds of guided tours to companies,

representing 5R

1600 - 1700 - Dinner

1800 - City tour (sightseeing, hosted by youth organisation

"Round table")

2300- Lights off

9TH JANUARY, 2020

800 - 816 - Registration / Coffee

830 - 900 - Companies present their tasks & questions

900 - 1030 - Tasks & questions solving (5 units)

1100 - 1200 - Lunch time

In parallel: 900- 1300 - Secondary Raw-Games in

Eco-Gaming Corner (in a lobby)

1200 - 1300 - Awards and good bye

1300 - Departure

BRAIN BATTLE

5 topics 10 questions

<u>5 R – </u>

- refuse;
- reduse;
- 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

Question 1

TRUE OR FALSE.

If all Germans could do without "coffee to go", would be felled 4300 fewer trees each year.



Question 2

What is an alternative to disposable flatware?



Question 3

What are the benefits of closed cycle management?



Question 4

List 5 reasons why is needed to refuse single-use plastic.



Question 5

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



Question 6

How much waste will humanity produce per day in 2100?



REFUSE Question 7

How much waste per capita is created in Lithuania?

a. 1500 kg

b. 453 kg

c. 1000 kg

d. 548 kg



Question 8

What does it mean a "pollution pays" principle?



Question 9

What are a problem related to collection and waste recycling from the yellow bin?





Question 10



Question 1

True or false.

If all Germans could do withaut "cofee to go", would be felled 4300 feewer trees each year.

Answers:

True



Question 2

What is an alternative to disposable flatware?

Answers:

Sugar cane plastic



Question 3

What are the benefits of closed cycle management?

Answers:

Environmental protection, economic pay off



Question 4

List 5 reasons why is needed to refuse single-use plastic.

Answers:

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.

9 REASONS TO REFUSE SINGLE-USE PLASTIC













Only a tiny percentage is recycled

ntage Leaches toxins into food & drink

Causes hormone







Pollutes our oceans

Kills marine animals and birds

Enters our food chain







Question 5

What is being written about?

This means not accepting things, that are not the best option for the environment.

Answers:

Refuse



Question 6

How much waste will humanity produce per day in 2100?

Answers:

11 million



REFUSE Question 7

How much waste per capita is created in Lithuania?

a. 1500 kg

b. 453 kg

c. 1000 kg

d. 548 kg



Question 8

What does it mean a "pollution pays" principle?

Answers:

Producer has to pay for waste treatment or disposed.



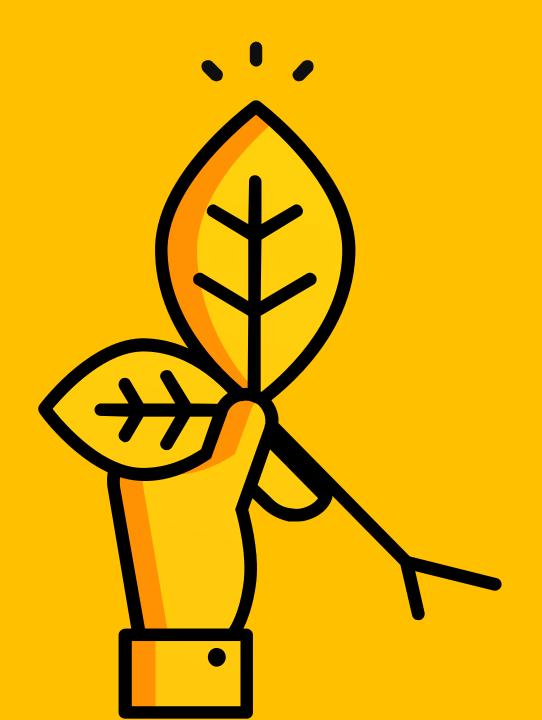
Question 9

What are a problem related to collection and waste recycling from the yellow bin?

Answers:

Financing





2. REDUCE

Question 1

True or false.
Five Polish
students created
an App Nextplease
for free book
exchange.



Question 2

What is the most effective way to reduce waste?



Question 3

What are the most effective ways that you can save natural resources, protect the environment and save the money?



Question 4

List 5 benefits of reducing and reusing.



Question 5

What is being written about? This will help to protect valuable resources.



Question 6

What is the "Digital postbox"



Question 7

What percentage of Lithuanians care about

using organic products?

a. 25 %

b.50 %

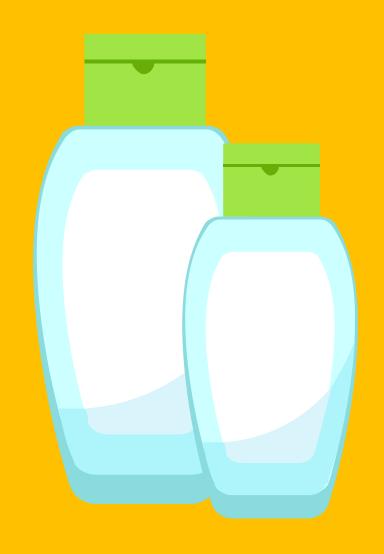
c.75%

d.100 %



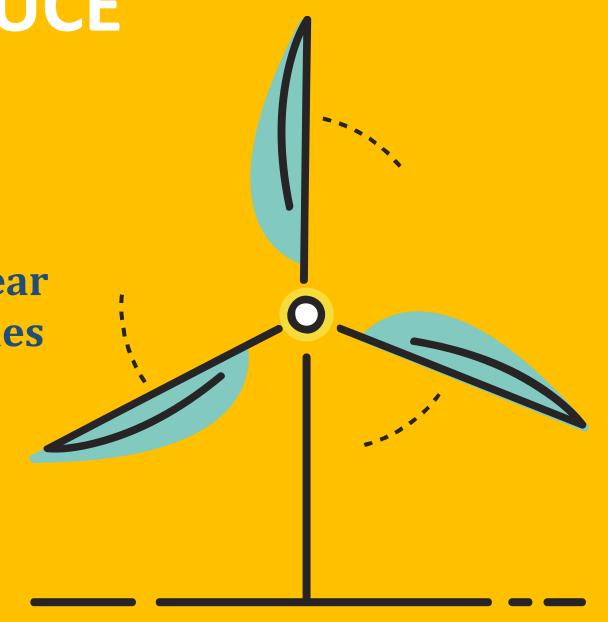
Question 8

If You stack the bottles of shampoo used by German's consumers, what it would look like?



Question 9

How many times per 10 year period Danish wind turbines had seted a record?





Question 10



Question 1

True or false.

Five Polish students created an App Nextplease for free book exchange.

Answers:

False, only two students created an App



Question 2

What is the most effective way to reduce waste?

Answers:

Not to create it



Question 3

What are the most effective ways that you can save natural resources, protect the environment and save the money?

Answers:

Reduction and reuse



Question 4

List 5 benefits of redusing and reusing.

Answers:

Save energy, prevents pollution, reduces greenhouse gas emissions, helps sustain the environment, save money, reduce the amout of waste that will need to be recycled, allows products to be used to their fullest extent



Question 5

What is being written about?
This will help to protect valuable resources.

Answers:

REDUCE



Question 6

What is the "Digital postbox"

Answers:

Is a free service which enables citizens to receive all important documents and letters from the government and some business (ex. Banks) digitally.



Question 7

What percentage of Lithuanians care about

using organic products?

a. 25 %

b.50 %

c.75%

d.100 %



Question 8

If You stack the bottles of shampoo used by German's consumers, what it would look like?

Answers:

Like a tower of the same height as Cheops pyramid.

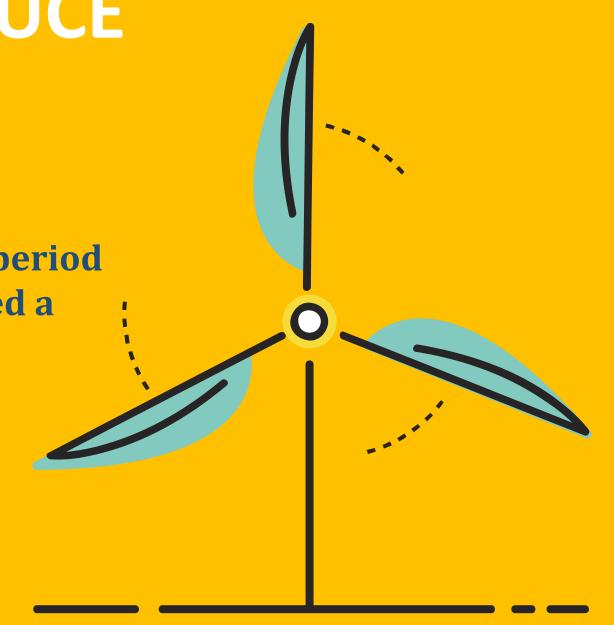


Question 9

How many times per 10 year period Danish wind turbines had seted a record?

Answers:

9 times.





Question 10

Answers:



3. REPAIR

Question 1

True or false.
In Denmark is more than 1062 shops which only offers clothes from reuse.



Question 2

What components are included in reuse?



Question 3

How many jobs creates the reuse of every 10 000 tons of material disposed by Microsoft?



Question 4

List 5 environmental benefits of reuse.



Question 5

What is being written about?
This will extend its life.



Question 6

What are the benefits of reuse projects for community?



Question 7

How many tons of clothes are donated per year in germany?

a.10 tons

b.100 tons

c.10 000 tons

d.100 000 tons



Question 8

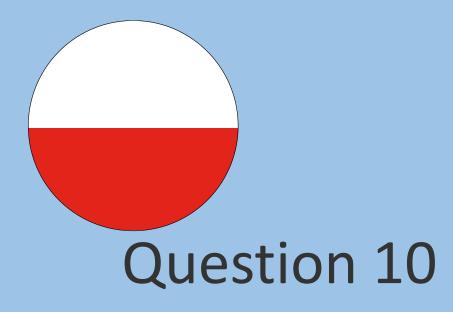
What is the date of reuse day?



Question 9

What is the second best option in waste management (after reducing)?







Question 1

True or false.
In Denmark is more than
1062 shops which only
offers clothes from reuse.

Answers:

True



Question 2

What components are included in reuse?

Answers:

Preparing for reuse and reuse



Question 3

How many jobs creates the reuse of every 10 000 tons of material disposed by Microsoft?

Answers:

296



Question 4

List 5 environmental benefits of reuse.

Answers:

Reduction of the amount waste, pollution prevention, reduction of greenhouse gas emissions, decreased strain on natural resources, preservation on the "embodied energy"



Question 5

What is being written about? This will extend its life.

Answers:

Reuse or Repair



Question 6

What are the benefits of reuse projects for community?

Answers:

It helps to create community cohesion



Question 7

How many tons of clothes are donated per year in germany?

a.10 tons

b.100 tons

c.10 000 tons

d.100 000 tons



Question 8

What is the date of reuse day?

Answers:

20 of October



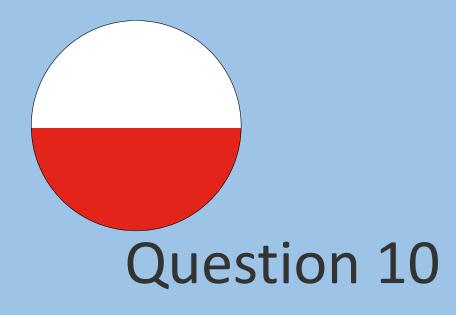
Question 9

What is the second best option in waste management (after reducing)?

Answers:

Re-using





Answers:



4. RECYCLE

RECYCLE

Question 1

True or false.

Sweden use 10 % of its waste to produce energy which is used to heat more then one million houses



Question 2

Why is recycling important?



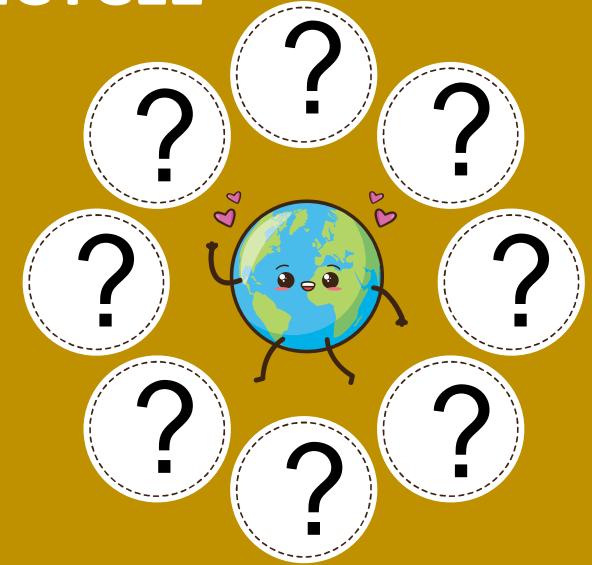
Question 3

For what purpose the steel in metal packaging can be used?



Question 4

List 5 benefits of recycling.



Question 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.



Question 6

How it is called materials recovery facility which will be used to form new products?



Question 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



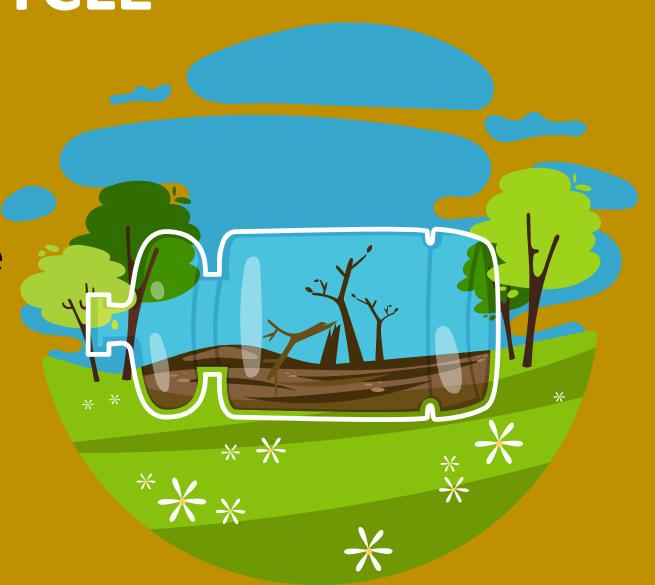
Question 8

Which country is responsible for 30 per cent of worldwide plastic ocean pollution?



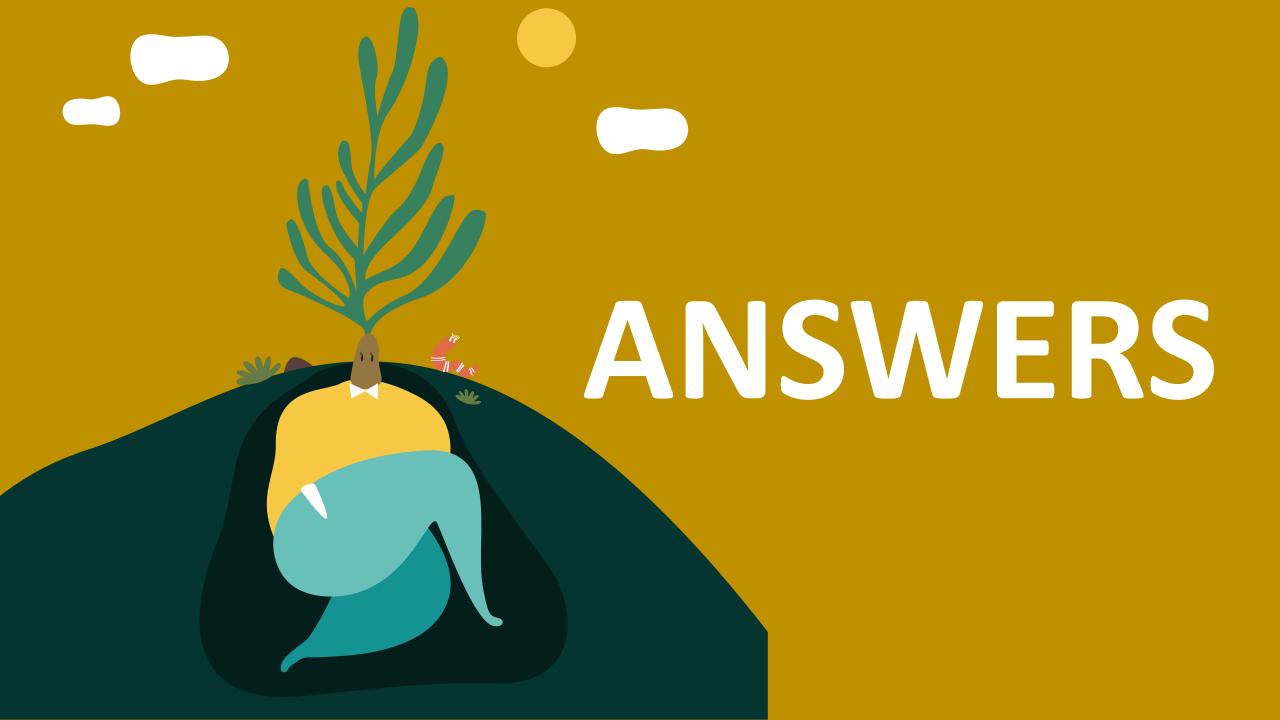
Question 9

How much ever produce plastic is still in the environment?





Question 10



Question 1

True or false.

Sweden use 10 % of its waste to produce energy which is used to heat more then one million houses

Answers:

False, they used 50% waste



Question 2

Why is recycling important?

Answers:

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



Question 3

For what purpose the steel in metal packaging can be used?

Answers:

Rail rails



Question 4

List 5 benefits of recycling.

Answers:

Reduce the amount of waste, resources lost in landfills, to collect new row 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



Question 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.



Question 6

How it is called materials recovery facility which will be used to form new products?

Answers:

Recyclate



Question 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



Question 8

Which country is responsible for 30 per cent of worldwide plastic ocean pollution?

Answers:

China

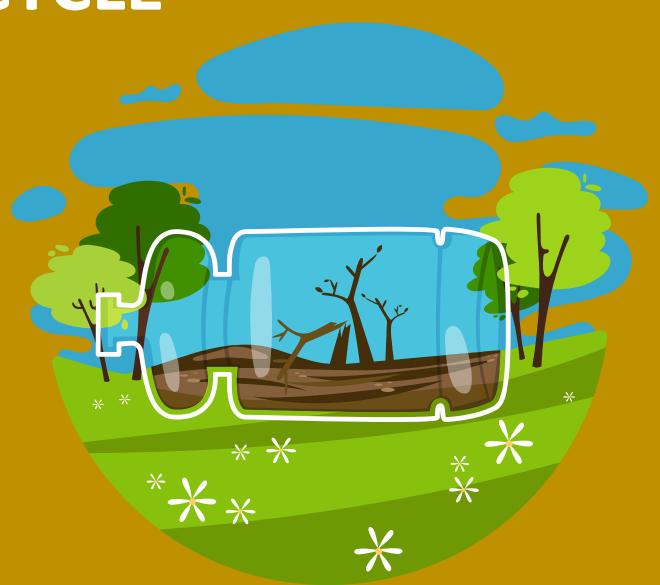


Question 9

How much ever produce plastic is still in the environment?

Answers:

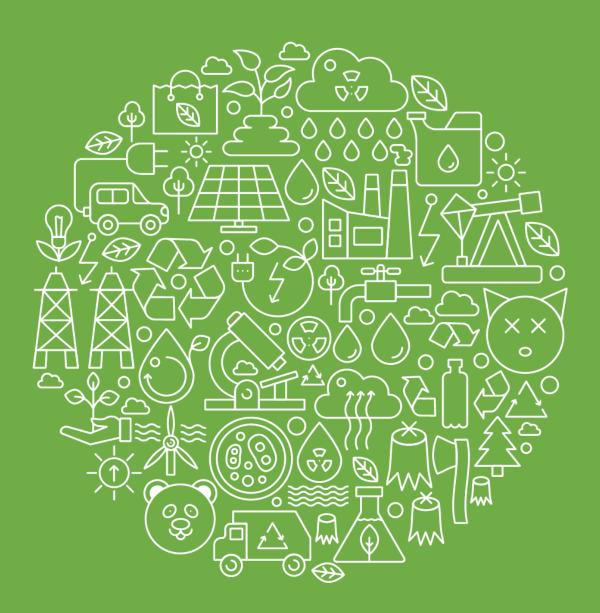
76 per cent





Question 10

Answers:



5. Replays

or reject

Question 1

True or false.

In Denmark each year, the Red Cross receives more than 6000 tons of recycled clothing.



Question 2

What kind of supply chain is appropriate for rebuy process?



Question 3

How it is called a popular way to heat organic waste?



Question 4

List 5 benefits of replace or rebuy.



Question 5

What is being written about? To substitute a thing that is broken or inefficient or no longer working for another.



Question 6

What is activy?



Question 7

Which year Denmark wake of the first Organic Action Plan.

a. 2015

b.2005

c.2000

d. 1995



Question 8

Why buying locally produced goods and services is good for environment?



Question 9

What products can carry the organic logo?





Question 10



Question 1

True or false.

In Denmark each year, the Red Cross receives more than 6000 tons of recycled clothing.

Answers:

True



Question 2

What kind of supply chain is appropriate for rebuy process?

Answers:

From farm to fork



Question 3

How it is called a popular way to heat organic waste?

Answers:

Vermicompast



Question 4

List 5 benefits of replace or rebuy.

Answers:

Rent intstead 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.



Question 5

What is being written about? To substitute a thing that is broken or inefficient or no longer working for another.

Answers:

Replay



Question 6

What is activy?

Answers:

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.



Question 7

Which year Denmark wake of the first Organic Action Plan.

a. 2015

b.2005

c.2000

d.)1995



Question 8

Why buying locally produced goods and services is good for environment?

Answers:

Because you can reduce transportation emissions and costs.



Question 9

What products can carry the organic logo?

Answers:

Products that consist of 95 per cent or more of the ingredients from organic farming





Question 10

Answers: