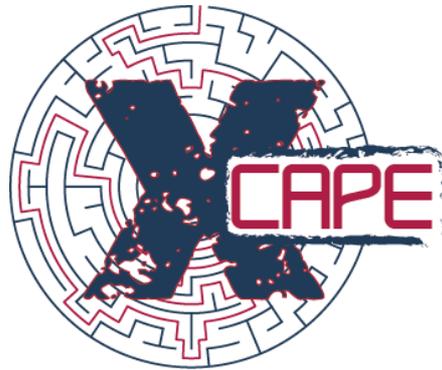




CAPE

IO1 – XCAPE Digital
Breakouts

Compendium of



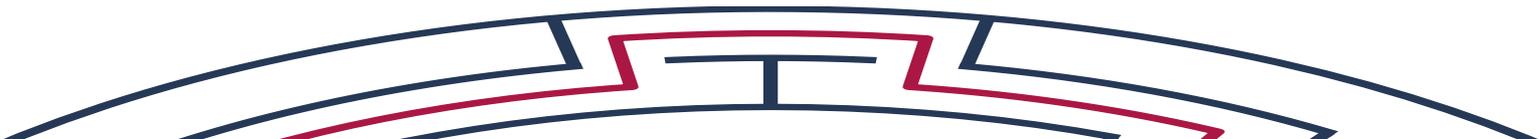
XCAPE: Breakout Challenges for Developing Transversal Skills

Project Number: 2019-1-IS01-KA202-051133

Prototype Digital Breakouts for Critical and Creative Thinking

Introductory to Intermediate Levels (Common Storyline)

Developed by ECQ Ltd., Bulgaria



IO1 – Digital Breakouts

1. Basic information

1.1 Title

Lucky L. & the infinite decimal

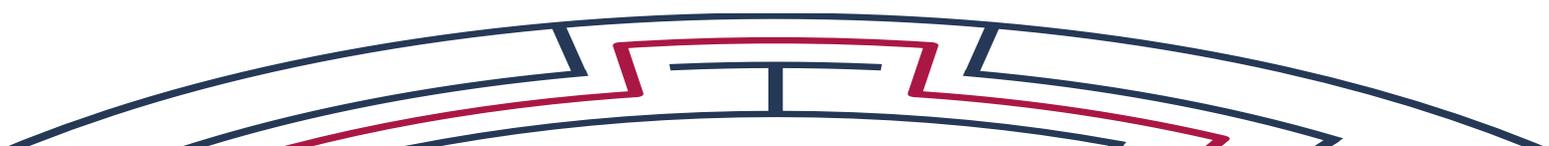
1.2 Competences addressed

Competence	Thread	Level	Description
Critical and Creative Thinking	Knowledge	Introductory	– Basic knowledge of critical and creative thinking.
Critical and Creative Thinking	Skills	Introductory	- Apply critical and creative thinking to evaluate a simple problem; - Complete simple research tasks online to find the answers to challenges.
Critical and Creative Thinking	Attitudes	Introductory	- Awareness of critical and creative thinking in action.

1.3 Introduction

Your are Lucky L. You are a self-made and very successful entrepreneur from Eastern Europe, who once was a serious math nerd. 10 years ago you graduated from Harvard University with a Master's degree in Applied Mathematics. Reportedly, you received a perfect score of 800 in the mathematical section of the SATs. Yes, you are a smart one, Lucky L.! And if you hadn't become a businessman, you might have become a successful detective, even the next world spy hero.

After graduating, you went back to your home country to establish a Fintech start-up, which nowadays has become one of the most prosperous companies in Europe with 1000+ employees. You still love maths, and enjoy solving logical riddles and playing online games, even though they have damaged your eyes. Your vision has deteriorated, and for this reason you are constantly wearing glasses. Your glasses are literally, in some situations, a lifesaver for you!



Today is a big day! One of your favourite days of the year! Your private Jet is waiting for you at the airport.

Level

Introductory

Cover image

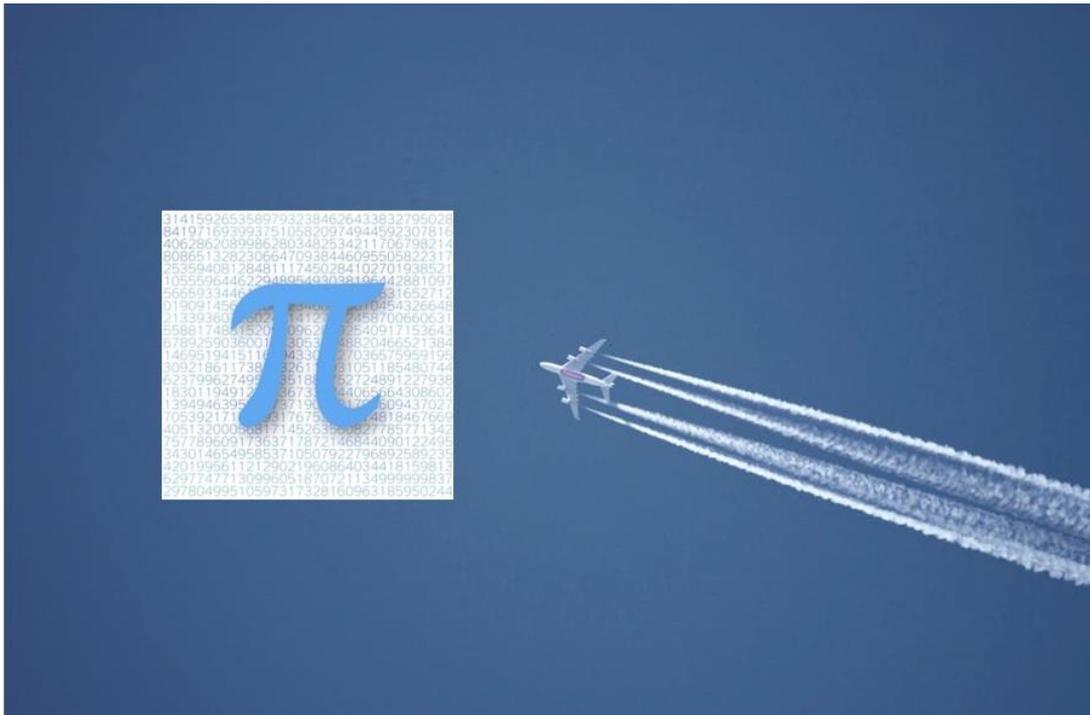


Image 1 on Dropbox

2. Challenge pages.

Each challenge page has the following information; Copy this template for each page of your challenge

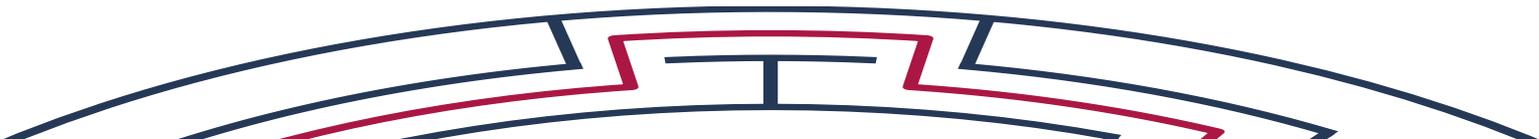
Page number 2

2.1 Title

Lucky L. & the infinite decimal – Introductory Level - Challenge 1

2.2 Content

- “Good morning Mr. Lucky!”, says Tom, the pilot.



- "Good morning, Tom! Blue skies and fair winds! We couldn't ask for a better day!"
- "Sir, you look really happy this morning! It must be a special day for you."
- "Yes, Tom! Today is Pi Day!"
- "What day, Sir?"

You proudly show Tom your metal badge indicating that you belong to the math community. And then he sees it - a small number engraved on the top of the badge. It reveals the mystery of what day is today.

2.3 Type

Test page

2.4. Attachment(s)

N/A

2.5 Page Challenge (optional)

Question

What date is engraved on the top of your badge? (HINT: use numbers in the answer and the format – dd/mm)

Correct answer

14/03

2.6 Congratulate the Learner

Well done, you have correctly answered that the international Pi Day is celebrated on March 14th.

Page number 3

2.1 Title

Lucky L. & the infinite decimal – Introductory Level - Challenge 2

2.2 Content

Every year on March 14th you reunite with old friends to celebrate your favourite science. This year the meeting will be held on a beautiful European island. You are going to stay a few days more to enjoy the sun and the sandy beaches. You are really excited for this journey.

- "Let's go Tom!"

- "Final destination, sir?", Tom asks.

- "We are going to the capital city of the Canary Islands, Tom. **The largest one.**"

2.3 Type

Test page

2.4. Attachment(s)

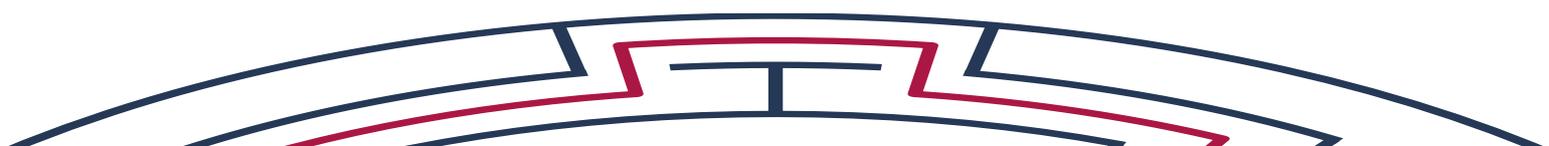




Image 2 on Dropbox

2.5 Page Challenge (optional)

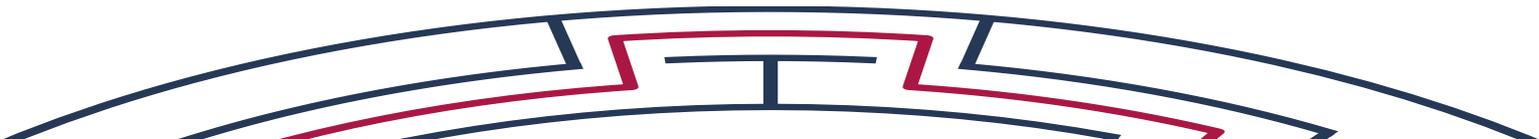
Question - *What is your final destination? (HINT: USE CAPITAL LETTERS)*

Correct answer

LAS PALMAS

2.6 Congratulate the Learner

Well done, you have correctly answered and your journey to Canary Islands is about to become. But who knows what lies ahead now?



Basic information

1.1 Title

Lucky L. & the hidden Canary Island

1.2 Competences addressed

Competence	Thread	Level	Description
Critical and Creative Thinking	Knowledge	Intermediate	<ul style="list-style-type: none"> - Basic knowledge of simple tests and techniques for developing creative and critical thinking skills; - Basic knowledge using problem solving.
Critical and Creative Thinking	Skills	Intermediate	<ul style="list-style-type: none"> - Apply creative and critical thinking to think fast in a situation and to figure out a solution; - Apply creative and critical thinking to think fast in a situation and to figure out a solution; - Apply digital skills to complete a set of challenges online.
Critical and Creative Thinking	Attitudes	Intermediate	<ul style="list-style-type: none"> - Awareness of how to analyse problems from different angles. - Awareness of how to critically evaluate information that is presented; - Proactiveness to

			seek possibilities, consider alternatives and acting on intuition.
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1.3 Introduction

- *“We are expected to land in 20 degrees Celsius, sir, in 30 minutes. Please, fasten your seatbelt.”, says Tom. So far the flight has been going very well, exactly as expected...*

And then suddenly you hear a strange noise. You look out the window and notice smoke covering the wing...

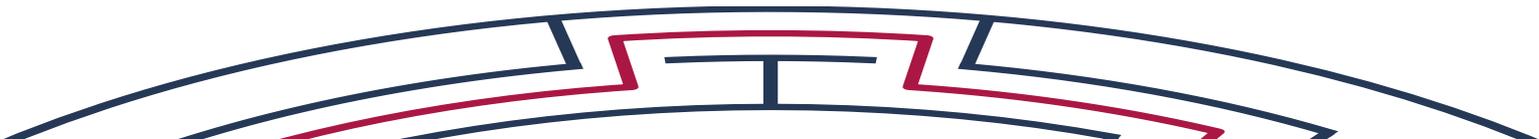
Level

Intermediate

Cover image



Image 3 on Dropbox



2. Challenge pages.

Each challenge page has the following information; Copy this template for each page of your challenge

Page number 2

2.1 Title

Lucky L. & the hidden Canary Island – Intermediate Level - Challenge 1

2.2 Content

You open your eyes. Your head hurts and you realise that you've been stranded on an uninhabited island, probably somewhere close to the Canary Islands. Fortunately for you, your glasses are not damaged and you still have your clothes, badge and wallet with credit cards. That's all you got!

But where are you? You look around for a clue of where this island may be located and you see a beach stone with hand written message - "Montaña Clara".

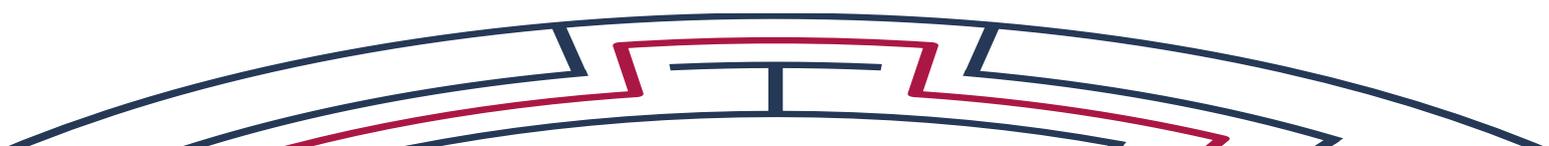
2.3 Type

Test page

2.4. Attachment(s)



Image 4 on Dropbox



2.5 Page Challenge (optional)

Question

What are the GPS coordinates for the Montaña Clara? (HINT: Latitude, Longitude)

Correct answer

29.298622,-13.535043

2.6 Congratulate the Learner

Congratulations, you have found the coordinates of your current location. This will help you to figure out how to get out.

Page number 3

2.1 Title

Lucky L. & the hidden Canary Island – Intermediate Level - Challenge 2

2.2 Content

The days on the island are hot and sunny, but the nights are wet and freezing. You barely survive the first 2 nights! You need to light a fire to survive the third night. You manage to collect enough firewood, but you have neither matches nor lighter.

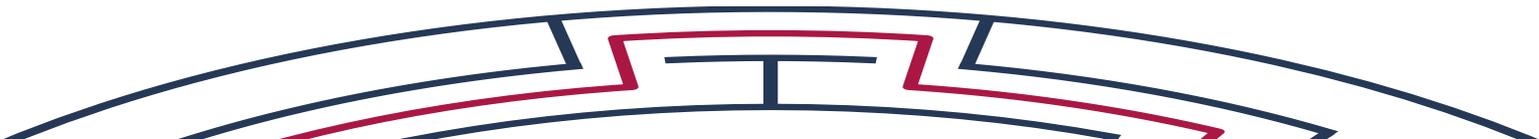
2.3 Type

Test page

2.4. Attachment(s)



Image 5 on Dropbox



2.5 Page Challenge (optional)

Question - How can you start a fire with the bare essentials you have?
(HINT: mark one of the items below)

1. Pi Badge



Image 6 on Dropbox

2. Glasses

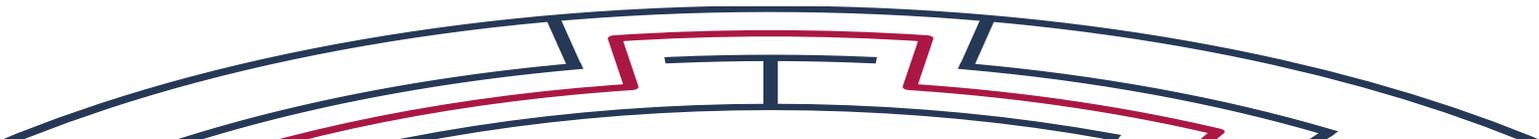


Image 7 on Dropbox

3. Credit card



Image 8 on Dropbox



Correct answer

GLASSES

2.6 Congratulate the Learner

Well done, you have guessed absolutely right that in order to set a fire, all you need is some sort of lens that focuses the sunlight on a specific spot.

Page number 4

2.1 Title

Lucky L. & the hidden Canary Island – Intermediate Level - Challenge 3

2.2 Content

You have made it! Now you are enjoying the warm fire! Luckily for you Lucky L., one helicopter passing by has seen the fire and came to save you. Just before you get on the helicopter, you notice a piece of old paper stuck on the ground. So, you decide to take and open it. Wow, it is a map! A map that marks the location of buried treasure. You double check the map and notice that there is a picture of a city on it – you decide that you will go there to find the treasure.

- “Where we are going?” – the pilot asks.

- “We are going to the Blue city of Morocco!”

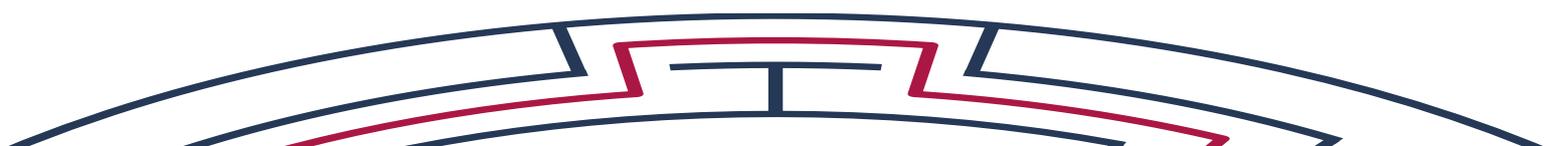
2.3 Type

Test page

2.4. Attachment(s)



Image 9 on Dropbox



2.5 Page Challenge (optional)

Question

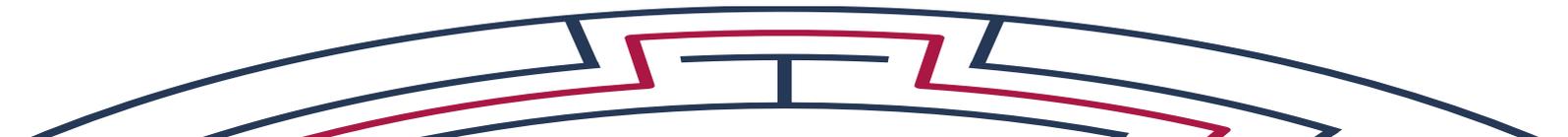
What is your destination? (HINT: use capital letters)

Correct answer

CHEFCHAOUEN

2.6 Congratulate the Learner

Well done! You are really using your critical and creative thinking skills to solve the challenges you are being presented with. You successfully figured out your next destination, but what lies ahead now?





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