

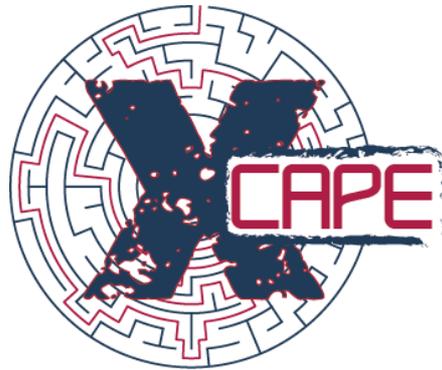


IO1 – XCAPE Digital
Breakouts
Compendium of
Resources
Thinking on Your Feet



CAPE

**BREAKOUT CHALLENGES FOR
DEVELOPING TRANSVERSAL
SKILLS**



XCAPE: Breakout Challenges for Developing Transversal Skills

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

Prototype Digital Breakouts for Critical and Creative Thinking

Introductory to Expert Levels (Common Storyline)

Developed by Spectrum Research Centre, CLG



IO1 – Digital Breakouts

1. Basic information

1.1 Title

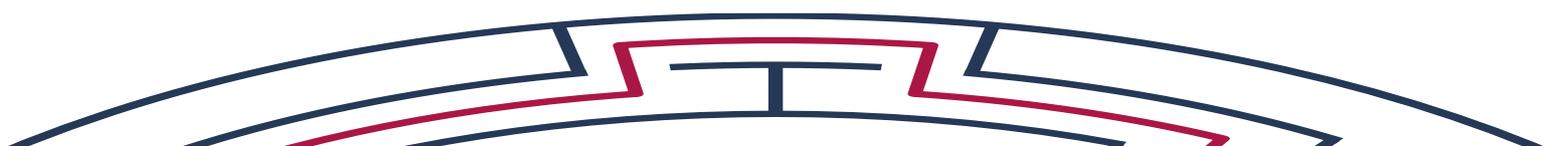
Thinking on your Feet...

1.2 Competences addressed

Competence	Thread	Level	Description
Critical and Creative Thinking	Knowledge	Intermediate	<ul style="list-style-type: none"> Basic knowledge using problem solving using critical and creative thinking
Critical and Creative Thinking	Skills	Introductory	<ul style="list-style-type: none"> Apply critical thinking to evaluate a simple problem Apply digital skills to complete a set of challenges online Complete simple research tasks online to find the answers to challenges.
Critical and Creative Thinking	Attitudes	Intermediate	<ul style="list-style-type: none"> Awareness of creative thinking in action Awareness of what it means to think critically

1.3 Introduction

Everyone describes you as a normal person. You go to university. You have a group of reliable friends who you have been friends with since your school days. You still live at home with your parents, but you have plans to move out soon. You are happy to be normal. You despise drama. One day you are at home watching TV, having a normal Sunday afternoon when you notice that a letter has been posted in your letter box. You open the letter and there is a code written on white paper inside. The code is hand-written. The envelop is not addressed to anyone, but you are sure that it is



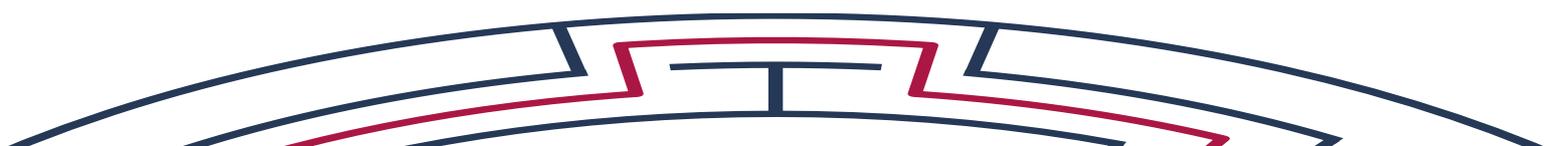


not intended for you or your parents. It has been delivered to the wrong house. You run to open the door and catch the person who has delivered this note to your house. You run down the pathway to find the person, but there is no sign of anybody on your street. As you stand there looking around you, a telephone in a phone box starts to ring. This is so odd. Nobody has used these telephone boxes in over a decade. Curious, you decide to answer the phone. Something in you thinks that the phone ringing might somehow be connected to this code that has appeared in your house. The person on the phone says that they know you have the code they are looking for, and they are coming to find you -if you don't get to the rendezvous point first. You panic. The phone goes dead.

Level

Introductory

Cover image



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

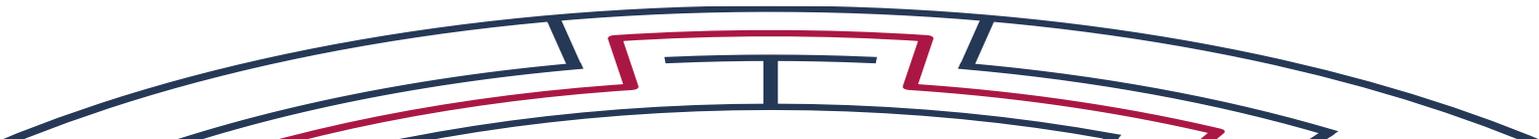
Thinking on your Feet – Introductory Level - Challenge 1

2.2 Content

You look around the post box for a clue of where the rendezvous point may be?



You see a poster:



2.3 Type

Test page

2.4. Attachment(s)

N/A

2.5 Page Challenge (optional)

Question

Can you name the monument that is shown in the poster? (HINT: use CAPITAL LETTERS in the answer)

Correct answer

EIFFEL TOWER

2.6 Congratulate the Learner

Well done, you have correctly answered that the poster shows the Eiffel Tower.

2.1 Title

Thinking on your Feet – Introductory Level - Challenge 2

2.2 Content

But if this is the rendezvous point, how will you get there? If you had the GPS coordinates for the Eiffel Tower, you would be able to navigate your way there!

2.3 Type

Test page

2.4. Attachment(s)

N/A

2.5 Page Challenge (optional)

Question

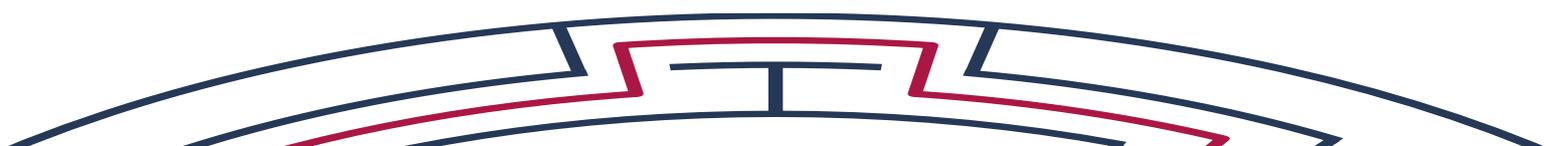
What are the GPS coordinates for the Eiffel Tower? (HINT: Latitude, Longitude)

Correct answer

48.858093, 2.294694

2.6 Congratulate the Learner

Congratulations, you have found the coordinates that will bring you to the Eiffel Tower!



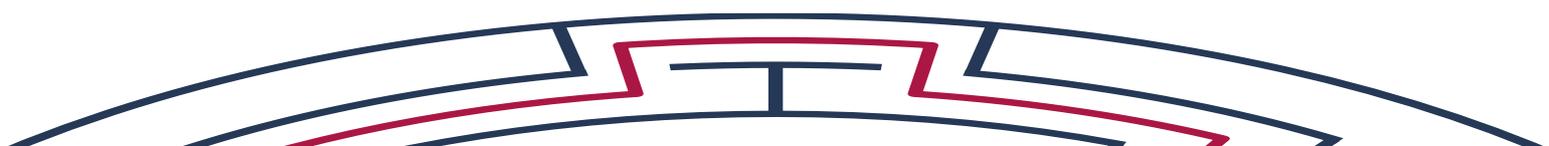
Basic information

1.1 Title

Thinking on your Feet...

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
Critical and Creative Thinking	Skills	Intermediate	<ul style="list-style-type: none"> - Analyse different ideas to find a suitable solution. - Apply creative and critical thinking to understand the task at hand. - Unpack the specifics of a problem.
Critical and Creative Thinking	Attitudes	Intermediate	<ul style="list-style-type: none"> - Awareness of how to critically evaluate information that is presented to them. - Awareness of how to analyse problems from different angles. - Awareness of how problems can be unpacked for better understanding.



1.3 Introduction

You understand now that you need to get to Paris from your home in Nantes. You are worried that you are being followed – even watched at this moment. If you could make it to the train station without being followed, you could take a train – but what is they are watching you? You could fly, but you dare not risk using your mobile phone to book a flight or use your passport at the airport. You don't know who these people are after all! You decide that your best option is to drive. You leave your mobile phone in your house, leave a note for your parents to say you have borrowed their car to visit a friend in Paris – you don't want to worry them until you know what is going on.

Level

Intermediate

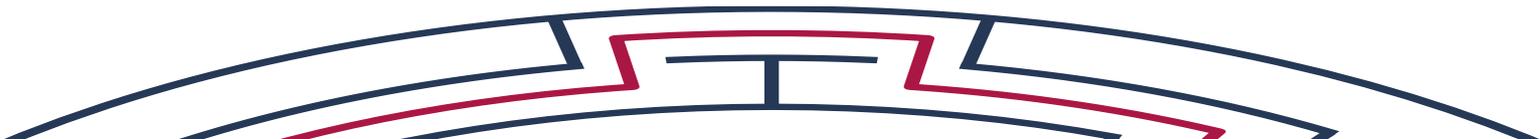
Cover image



2. Challenge pages.

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

Page number 4



2.1 Title

Thinking on your Feet – Intermediate Level - Challenge 1

2.2 Content

You will drive to Paris and wait at the Eiffel Tower to see if someone is there to meet you. It is a public place so it should be safe, you don't feel in any danger at the moment.

2.3 Type

Test page

2.4. Attachment(s)



2.5 Page Challenge (optional)

Question

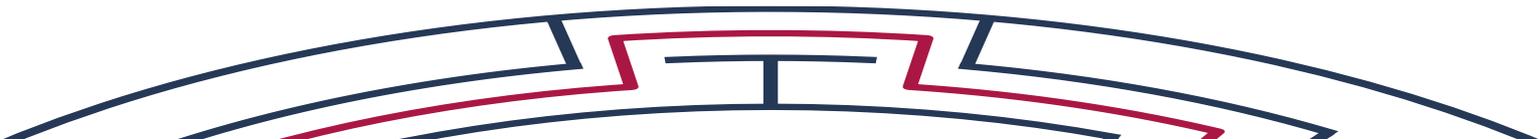
How far is it from Nantes to Paris? (HINT: answer in the nearest kilometre)

Correct answer

385

2.6 Congratulate the Learner

Well done, you are really thinking on your feet now and you know how far you need to drive to reach Paris – you should get there in 4 hours.



2.1 Title

Thinking on your Feet – Intermediate Level - Challenge 2

2.2 Content

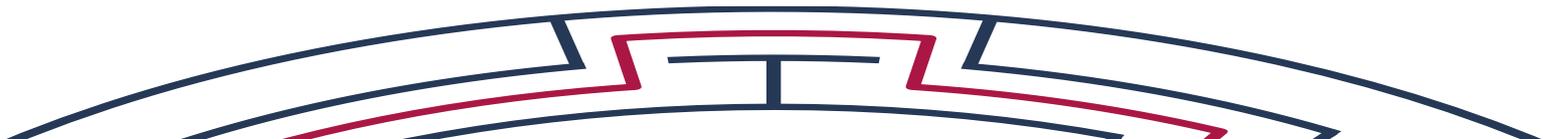
You have made it to Paris, and you don't think you were followed. You are standing under the Eiffel Tower, looking all around you, waiting for someone to approach you. You think everyone is looking at you in an odd way, but it is paranoia – you are also looking intensely at everyone who passes you by. There are security guards everywhere, you are assured that you are not in any danger. At that moment, a pigeon lands on your shoulder – it is carrying a note attached to its leg. You unwrap the note and it is an address in Paris – you decide that you will go there to look for answers.

At the door of the building, you need a 6-digit code to enter. You think this is the key – you will use the code that is written on the note that came through your door – it only has 4-digits. You look around for clues to what the code might be. The sign over the door reads “BIFACE” – there is a small sign close to it that reads in small letters : B=2.

2.3 Type

Test page

2.4 Attachment(s)



2.5 Page Challenge (optional)

Question

What is the code that will allow you to enter the building?

Correct answer

296135

2.6 Congratulate the Learner

Congratulations, you have broken the cypher and found the code to enter the building, but what lies ahead now?

2.1 Title

Thinking on your Feet – Intermediate Level - Challenge 3

2.2 Content

You enter the building tentatively. There are no lights on in the hallway. You look around for signs that there is someone else there. You notice that there is a phone and an old-fashioned phone book on a small table in the hallway. You walk towards it. The phone rings as you approach it. You answer the phone. A muffled voice speaks:

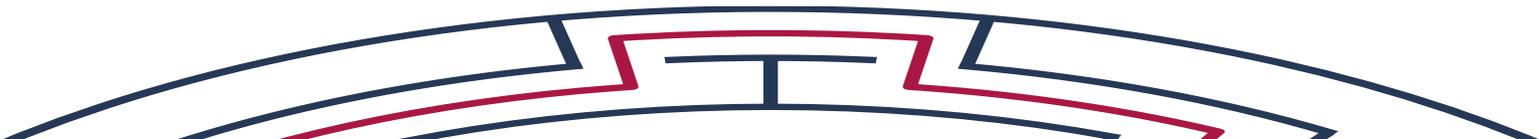
“A taxi driver was moving in the wrong direction on a one-way road and went through a stop sign at the end without stopping. A police officer was standing nearby. He noticed him, but he let him go.

Why did the police officer not fine him or stop him?”

2.3 Type

Test page

2.4. Attachment(s)





2.5 Page Challenge (optional)

Question

What is the answer to the riddle? How is the taxi driver travelling up the street? He is... (HINT: use CAPITAL LETTERS in your answer)

Correct answer

WALKING

2.6 Congratulate the Learner

Congratulations, you are really using your critical and creative thinking skills to solve the puzzles you are being presented with. But are you any closer to finding out who is after you, and why they put this code through your letter box?

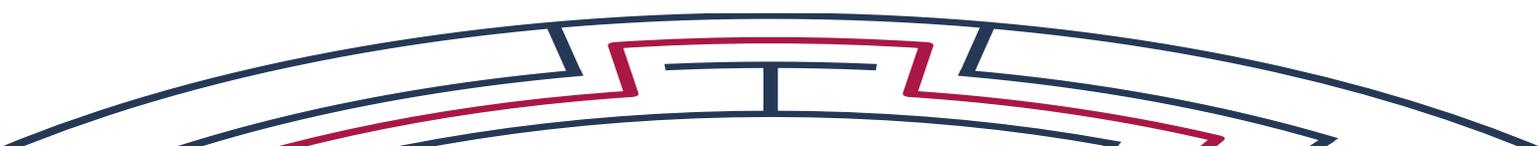
Basic information

1.1 Title

Thinking on your Feet...

1.2 Competences addressed

Competence	Thread	Level	Description
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Critical and Creative Thinking	Knowledge	Advanced	<ul style="list-style-type: none"> - Theoretical knowledge of how creative and critical thinking can be applied to a defined task.
Critical and Creative Thinking	Skills	Advanced	<ul style="list-style-type: none"> - Apply thinking skills to solve a simple riddle. - Examine a problem from different perspectives. - Practice creative thinking in a given context. - Practice critical thinking to solve a challenge.
Critical and Creative Thinking	Attitudes	Advanced	<ul style="list-style-type: none"> - Appreciation of how creative and critical thinking can be developed by solving puzzles and riddles.

1.3 Introduction

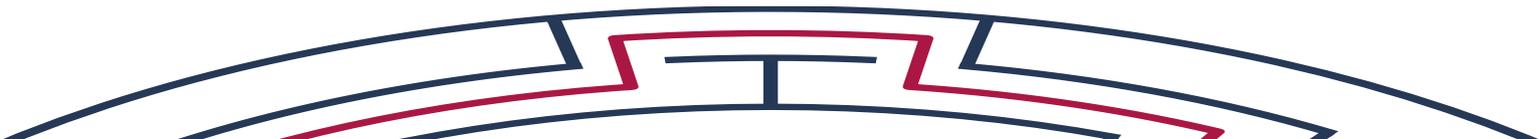
As you solve the riddle, suddenly a door swings open. You call out to see if there is someone there, when nobody answers, you enter through the door. You are starting to worry now – you wonder will you ever get to the bottom of this mystery.

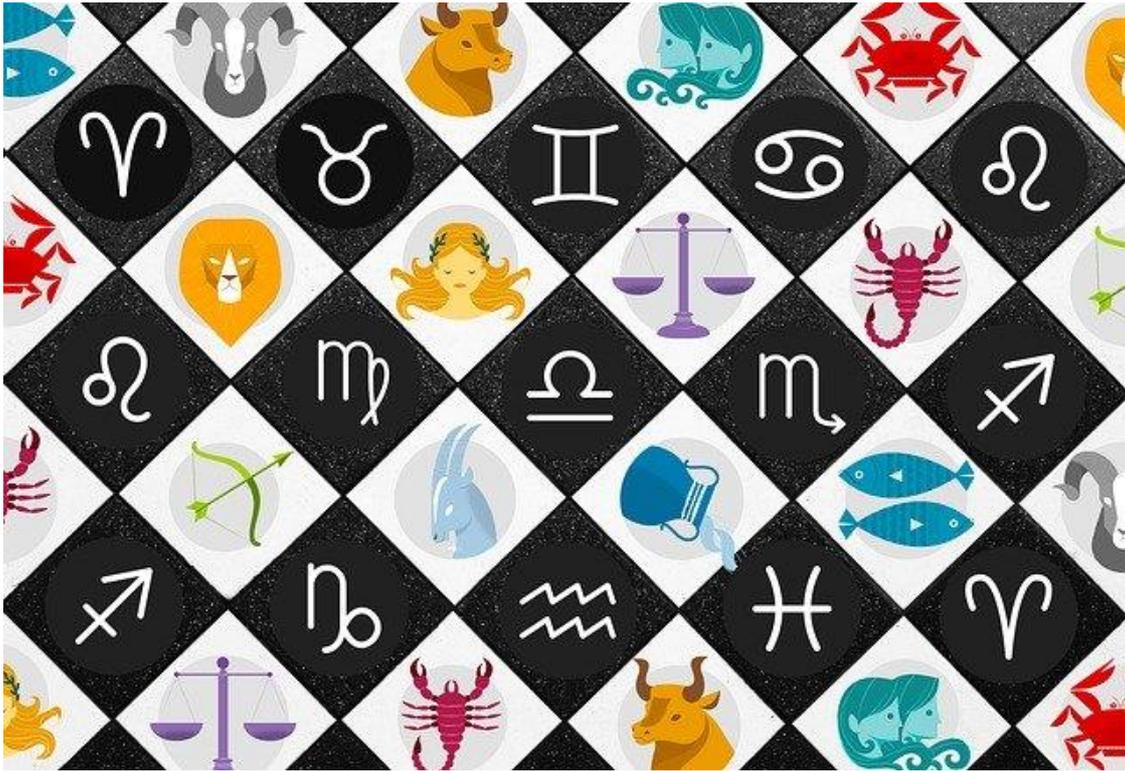
When you walk through the door, you see that you are in a room with 12 other doors. You look around at the detail of the door. They are all painted dark brown, and each with a different symbol on the door, but no numbers or words. You carefully examine the symbols, you think they are the signs of the Zodiac.

Level

Advanced

Cover image





2. Challenge pages.

Page number 6

2.1 Title

Thinking on your Feet – Advanced Level - Challenge 1

2.2 Content

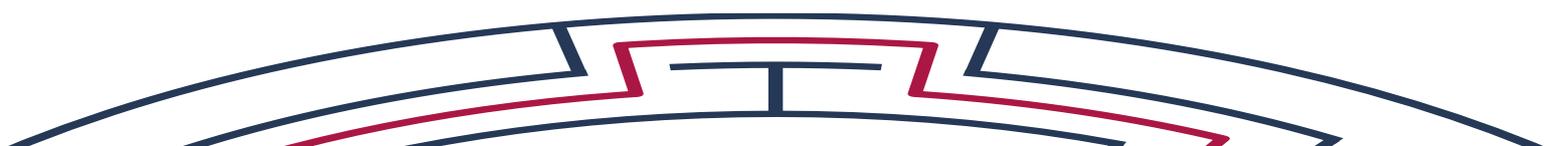
You look around the room for clues, there is nothing else in the room apart from these 12 doors, but how do you know which door to walk through?

All doors are the same. All symbols are different but one has two of a kind...

2.3 Type

Test page

2.4. Attachment(s)





2.5 Page Challenge (optional)

Question

Which door do you walk through? (HINT: write your answer using CAPITAL LETTERS.

Correct answer

GEMINI

2.6 Congratulate the Learner

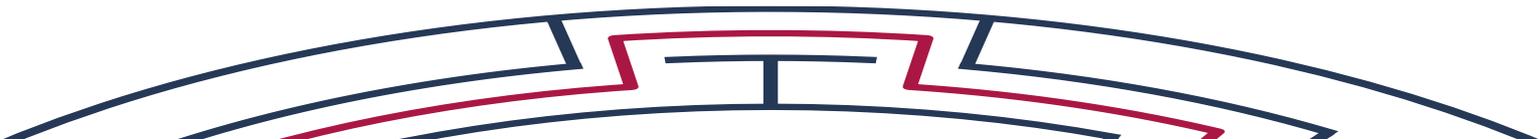
Great job! You have used your deductive reasoning to select the right door to through.

2.1 Title

Thinking on your Feet – Advanced Level - Challenge 2

2.2 Content

Inside the room, you look around again to see if there is any sign of life. You feel around for a light switch but cannot find one. You turn on a lamp that is sitting on a desk beside a mirror. When the light hits the wall, you see that there is a message written on the wall:



You have a single match and are in a pitch black room with a candle, an oil lamp and a gas stove. Which do you light first?

2.3 Type

Test page



2.4. Attachment(s)

2.5 Page Challenge (optional)

Question

Can you solve the riddle? Which one will you light first? (HINT: remember to use CAPITAL LETTERS in your answer)

Correct answer

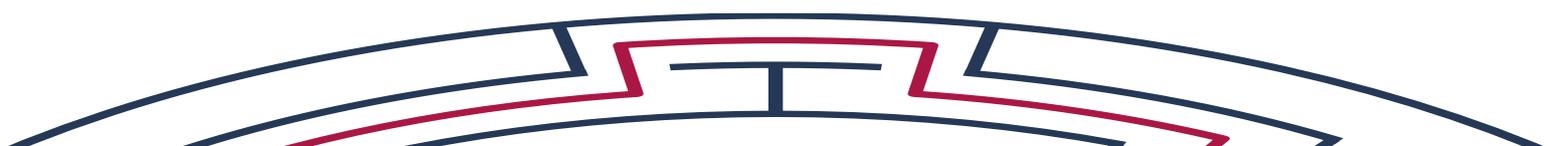
MATCH

2.6 Congratulate the Learner

Well done – you have solved another riddle! You are getting good at this!

2.1 Title

Thinking on your Feet – Advanced Level - Challenge 3



2.2 Content

You notice that there is a match sitting on a locked box on the desk. This must be a clue! You examine the box, it needs a 2-digit code. You think back to that piece of paper that was posted through your letter box, but that had a 4-digit code – that cannot be it. Beside the box there is a small card. You turn it over and see what is written on the other side:

G+E+M+I+N+I

2.3 Type

Test page

2.4. Attachment(s)



2.5 Page Challenge (optional)

Question

What is the 2-digit code that will unlock the box?

Correct answer

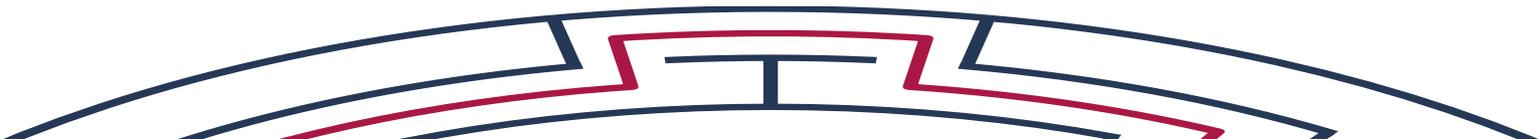
57

2.6 Congratulate the Learner

Great job! You have found the code and unlocked the box. You feel inside the box.

2.1 Title

Thinking on your Feet – Advanced Level - Challenge 4



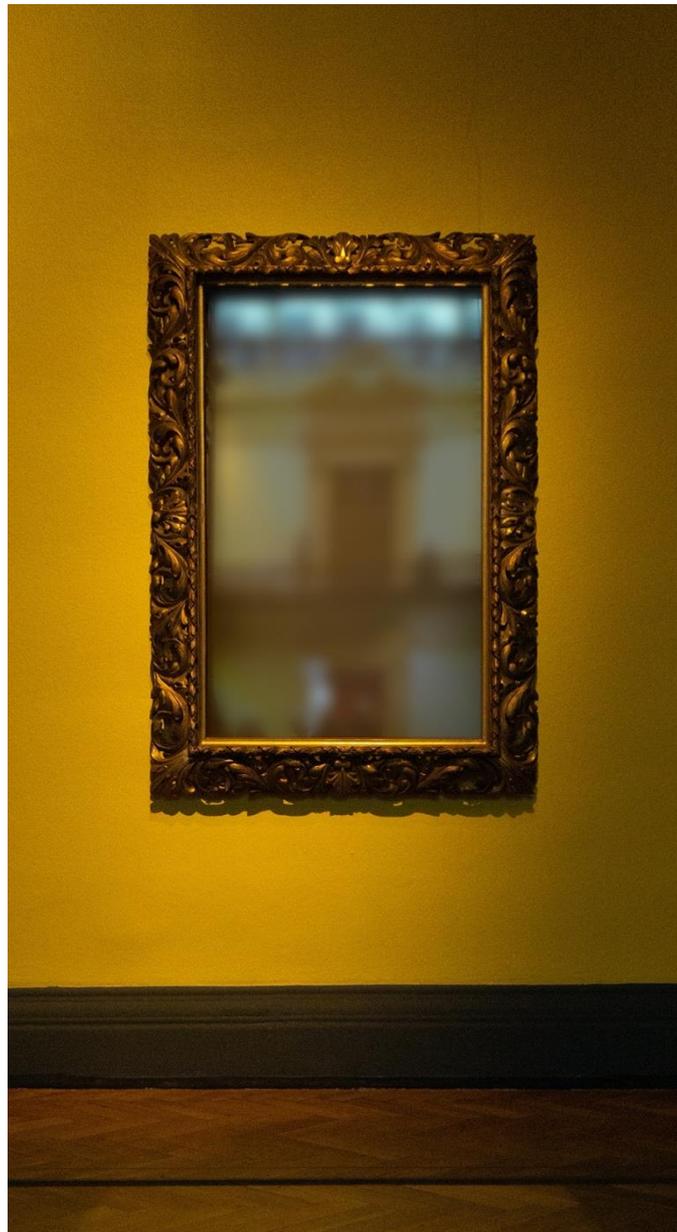
2.2 Content

You reach inside the box and find a flash-light. You turn it on but nothing happens. Then you realise that it is no ordinary flash-light. It is an ultra-violet light. There must be a clue hidden somewhere in the room. You shine the light around the room, but you cannot find any hidden clues. You shine it at the mirror... You see that there are some words written, but the phrase is incomplete.

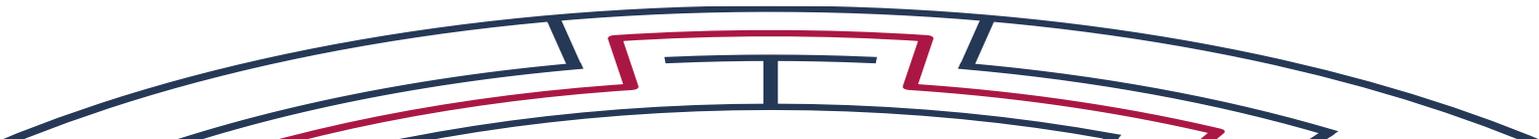
2.3 Type

Test page

2.4. Attachment(s)



<Insert the Word file included as an annex to this Digital Breakout>



2.5 Page Challenge (optional)

Question

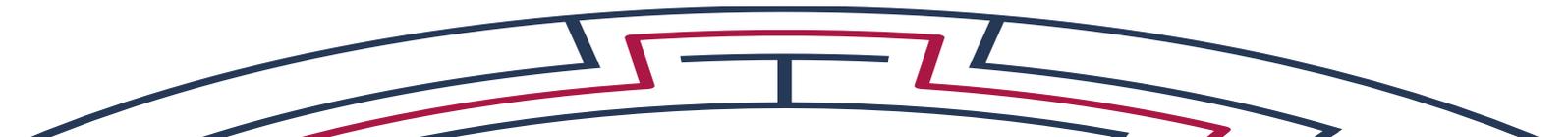
What is the missing word? (HINT: answer should be two words in CAPITAL LETTERS).

Correct answer

THE TRAIN

2.6 Congratulate the Learner

Well done, you have found the missing words! Maybe if you shout these words out loud, someone will finally answer you!



Basic information

1.1 Title

Thinking on your Feet...

1.2 Competences addressed

Competence	Thread	Level	Description
Critical and Creative Thinking	Knowledge	Expert	<ul style="list-style-type: none"> - Theoretical knowledge of how critical and creative thinking can be combined to solve real-world challenges.
Critical and Creative Thinking	Skills	Expert	<ul style="list-style-type: none"> - Apply thinking skills to real-world problems. - Combine critical and creative to solve a more complex riddle.
Critical and Creative Thinking	Attitudes	Expert	<ul style="list-style-type: none"> - Appreciation of how thinking skills can be applied to problems around us.

1.3 Introduction

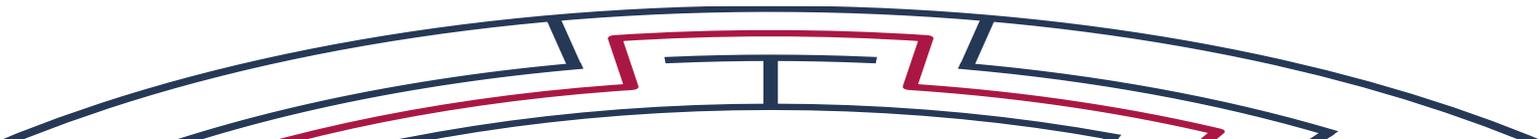
You stand in the room and shout out loud “THE TRAIN” at the top of your voice. You are really worried now, you just want to find out what is happening and who is behind all of this! As you shout, the mirror shatters. A bright light comes charging towards you.

There is a loud sound – like a horn blowing. You close your eyes in terror. When you open your eyes, you find that you are on a train!

Level

Expert

Cover image





2. Challenge pages.

Page number 8

2.1 Title

Thinking on your Feet – Expert Level - Challenge 1

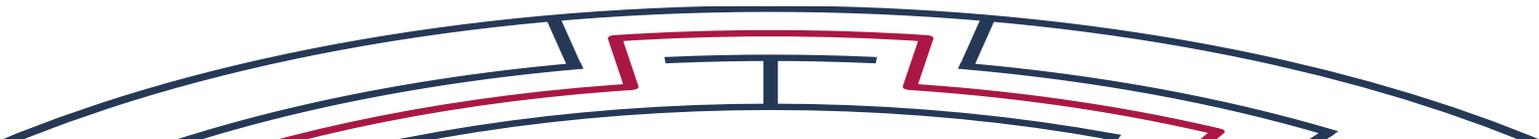
2.2 Content

You are the only passenger in the train carriage. You frantically look around for clues of where you are and where this train is going! You see a ticket on the seat next to you. The ticket reads that the train will terminate at “Mad Master”.

2.3 Type

Test page

2.4. Attachment(s)





2.5 Page Challenge (optional)

Question

Where is the train going to? (HINT: provide your answer in CAPITAL LETTERS)

Correct answer

AMSTERDAM

Options

If the learner does not guess the correct location after 2 attempts, please give them the following hint: {HINT: Could Mad Master be an anagram?}

2.6 Congratulate the Learners

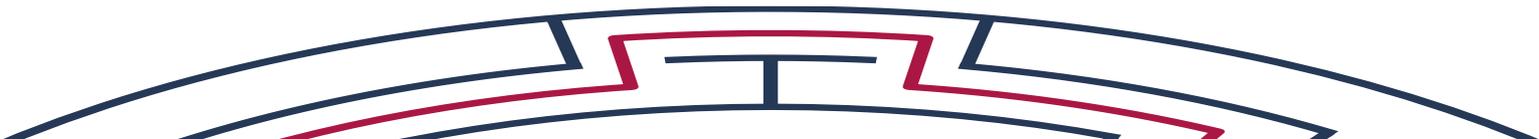
Well done – it was difficult but you found the terminus of the train you are on! But now for the next question...what are you doing here?

Page number 9

2.1 Title

Thinking on your Feet – Expert Level - Challenge 2

2.2 Content



Suddenly the carriage door opens, and a man in a long trench coat walks by your seat. As he passes your seat he drops a piece of paper on the seat beside you. You open it up. It says "DON'T PANIC". This is followed by a series of small dots and lines. You think it could be Morse code:

.-- .- .. - ..-. --- .- -- . .-- --. .-. .- .-
-.. .--. .-... -.-. .

2.3 Type

Test page



2.4. Attachment(s)

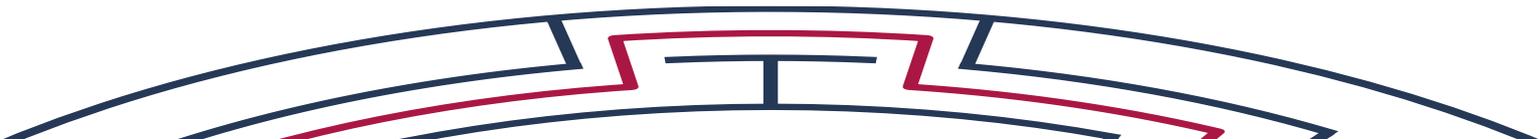
2.5 Page Challenge (optional)

Question

What does the Morse code message say? (HINT: provide your answer in CAPITAL LETTERS)

Correct answer

WAIT FOR ME AT GRAND PLACE



Options

If the learner does not guess the correct answer after 2 attempts, please give them the following hint: {HINT: Should you use a Morse code translator online?}

2.6 Congratulate the Learners

Congratulations – you now know where the meeting place is, but you feel the anxiety rising in your chest. Your journey is almost over, but you are about to confront who has been chasing you all along.

2.1 Title

Thinking on your Feet – Expert Level - Challenge 3

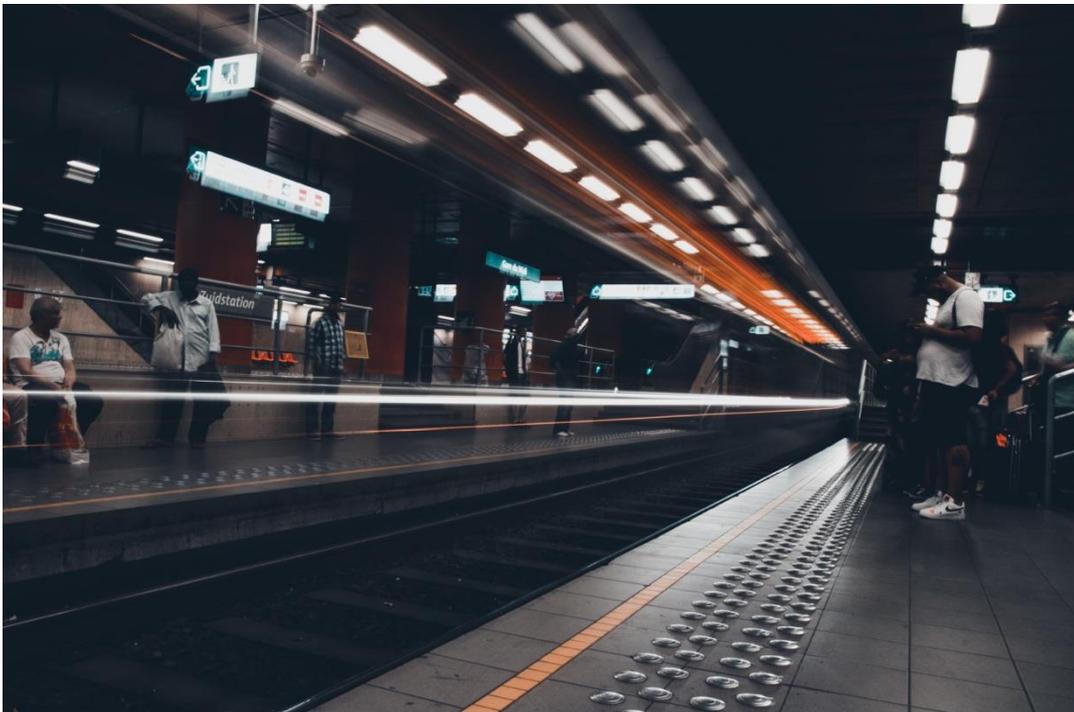
2.2 Content

Your rendezvous point is in Grand Place – this is the main square in Brussels. But your train is travelling from Paris to Amsterdam – you will need to get off the train in Brussels. Remember to exit the train discreetly without being noticed.

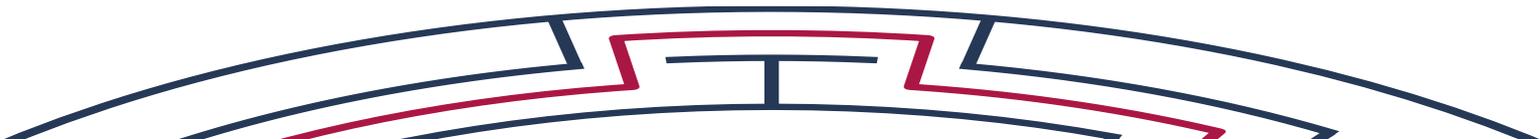
2.3 Type

Test page

2.4. Attachment(s)



2.5 Page Challenge (optional)



Question

Fill in the blanks to determine what is the name of the central train station where you should exit the train in Bruxelles? (HINT: provide your answer in CAPITAL LETTERS)

Correct answer

----- CENTRALE

Options

If the learner does not guess the correct location after 2 attempts, please give them the following hint: {HINT: Remember you are a French speaker, so what is the word for 'train station' in French?}

2.6 Congratulate the Learners

Well done – you have found the train station!

2.1 Title

Thinking on your Feet – Expert Level - Challenge 4

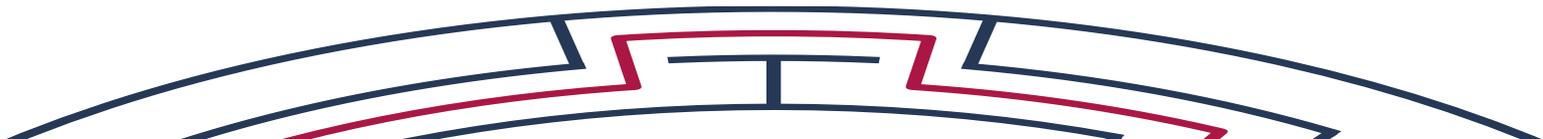
2.2 Content

You have exited the train at Gare Centrale – also known as Bruxelles-Midi or Brussels-Zuid – you will go by foot to Grand Place where you hope to find an answer to what this whole crazy quest has been about!

2.3 Type

Test page

2.4. Attachment(s)



2.5 Page Challenge (optional)

Question

What is the name of the road you will walk between Boulevard de Midi and Rue di Midi that will take you to Grand Place? (HINT: provide your answer in CAPITAL LETTERS)

Correct answer

AVENUE DE STALINGRAD

Options

If the learner does not guess the correct location after 2 attempts, please give them the following hint: {HINT: Remember you are a French speaker, so you should give the French name of the road!}

2.6 Congratulate the Learners

Congratulations, now you know what route you should take to the meeting place!

2.1 Title

Thinking on your Feet – Expert Level - Challenge 5

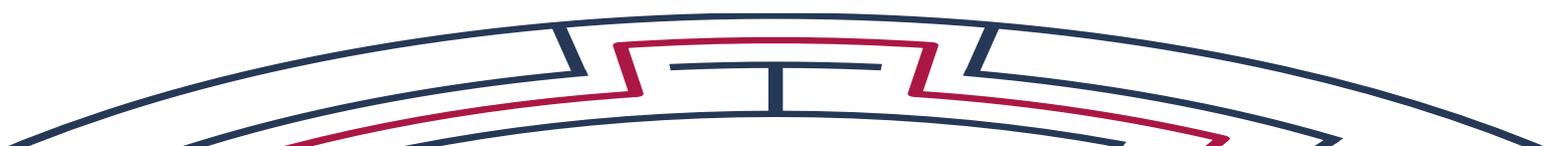
2.2 Content

This is the final step in your quest to find out the truth. You have made it this far and now you want answers. You stand in the centre of Grand Place. A man in a trench coat is walking directly towards you. Your heart starts to beat very fast in your chest. You anticipate that he may harm you. You feel like running away but you know if you run, this will never be over. You stand there as the man approaches. He walks straight up to you, and without saying hello or pausing for breath, the man shares a riddle with you:

Four men buried up to their necks in the ground. They cannot move, so they can only look forward. Between A and B is a brick wall which cannot be seen through. They all know that between them they are wearing four hats--two black and two white--but they do not know what colour they are wearing. Each of them know where the other three men are buried.

In order to avoid being shot, one of them must call out to the executioner the colour of their hat. If they get it wrong, everyone will be shot. They are not allowed to talk to each other and have 10 minutes to fathom it out.

After one minute, one of them calls out.



2.3 Type

Test page

2.4. Attachment(s)



2.5 Page Challenge (optional)

Question

Which one of them calls out - A, B, C or D? (*HINT: This is not a trick question. There are no outside influences nor other ways of communicating. They cannot move and are buried in a straight line; A & B can only see their respective sides of the wall, C can see B, and D can see B & C. But which one can see another man in his hat, and be certain of the colour of his own hat?)*

As a follow up question, can you explain your answer?

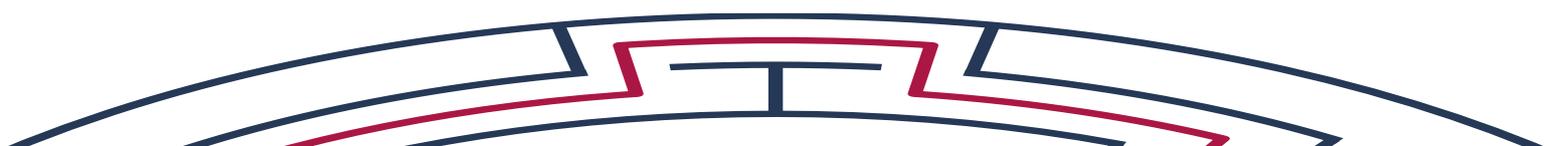
Correct answer

C

Options - Follow-up Explanation – If the learner cannot pass this riddle in 3 attempts, provide the following explanation. If the learner passes the riddle, please provide this explanation to show that they were right.

C calls out that he is wearing a black hat. Why is he 100% certain of the colour of his hat? After a while, C comes to the realization that he must answer. This is because D can't answer, and neither can A or B.

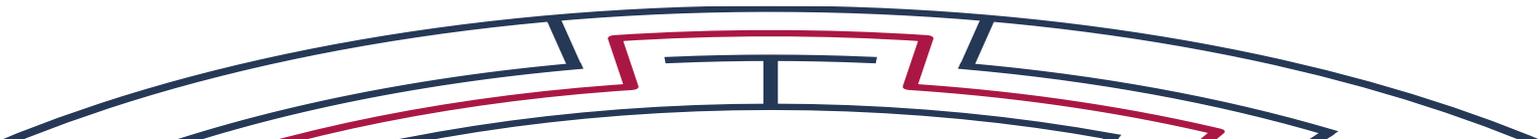
D can see C and B, but can't determine his own hat colour. B can't see anyone and also can't determine his own hat colour. A is in the same situation as B, where he can't see anyone and can't determine his own hat colour.



Since A, B, and D are silent, that leaves C. C knows he is wearing a black hat because if D saw that both B and C were wearing white hats, then he would have answered. But since D is silent, C knows that he must be wearing a black hat as he can see that B is wearing a white hat.

2.6 Congratulate the Learners

Congratulations, you have passed the final test! Well done! You have used your creative and critical thinking skills to get yourself out of a seemingly impossible situation – you must be very proud! With passing this riddle, the man in the trench coat takes the envelope with the code from you, thanks you and leaves. You are free to return home, but at least now you have an interesting story to tell about your strange adventure to Brussels.





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