<u>Answer Key - Out of the Enchanting Forest - April 29, 2022</u>

A word from our creators:

>*Some puzzles were tougher than others, but hopefully you were able to enjoy yourselves. Thank you all for playing with us and we hope these Answer Keys will help relieve any questions you had about the puzzles. We'll continue to work on new Online Escape Rooms for you, so stay tuned in to our website at tpl.ca/teens/programs-and-classes.jsp!*

Puzzle 1: Out of the Enchanting Forest

Answer: 135

Each of the three sides to the triangles have 3 blanks for numbers, so we need to find sets of three numbers that add up to 10 using numbers between 1-6.

Here are the only ways to make 10 using three numbers from 1-6.
1 + 6 + 3
1 + 4 + 5
2 + 3 + 5

Because the triangle has three corners where the numbers at each corner are used for two sides at a time, that means the three corners must be filled with the numbers that get used more than once in the options above. You'll notice that 1, 3 and 5 are the only numbers that get used twice each, so if you try putting these numbers at the triangle's corners, and filling the remaining gaps with the numbers so that each side equals 10, you'll see that 1, 3 and 5 work perfectly as your three corner pieces.

Puzzle 2: A map…on Paper!?

Answer: C

The best way to solve this is to use a ruler to measure out the on-screen distances described in the puzzle. The directions tell you to go 4km E, 2.5km NW, 3km S, 2km W, 3km NE, which should take you on-screen towards G, then up towards and past C, down towards F, left until you're just below your starting point, then finally back up towards C as the final landmark you land on.

Puzzle 3: Knot my ankles!
Answer: Left, down, right, up, down, left

It's easy to lose track of the "vine" as you "unknot" it. It's easy to overestimate the number of steps, but the simplest directions are above. As the knot crosses over itself, you can see the first two directions and the last two are reversed.

Puzzle 4: A sign of Confusion
Answer: River, Visitors, Caves

Each sign is a self contained clue, and it is meant to be a little tricky, as all the words have the letter V.

Puzzle 5: Perilous Crossing
Answer: C1, C2, D3, C4, B5

Players need to avoid all the plants, except for the ferns which are safe. That leaves only the following squares - the rest are covered in vines or poisonous plants. Fun fact - Hogweed, Wild Parsnip, and poisonous ivy are all real poisonous plants that grow in Ontario.

Puzzle 6: As the Sun sets on your Adventure…
Answer: 180

There are 90 degrees separating the vertical line and the horizontal line in a right triangle. The Sun's position of 30 degrees from the horizontal line means that it's two-thirds of the way between the vertical line (representing noon or 12pm) and the horizontal line (representing sunset or 6pm). Two-thirds from 12pm to 6pm is 4pm. So that means you have from 4pm to 7pm (when the bus departs) to make it to your bus, which is 3 hours of time, and equal to 180 minutes.

Puzzle 7: Bear-y Distracting
Answer: Drake Songs

The four best distractions for the four types of bears (grizzly, black, polar, and panda) are:
1) brightly coloured toys,
2) strong smelling clothing,
3) Nutella,
4) Drake's songs
But you can't remember which one works for which bear.

The only details you can recall are:
- Each bear has one main distraction
- Black bears aren't into Nutella, they stick strictly to PB & J (all for the best, since you don't have any Nutella on you anyways)
- Grizzly bears can't see very well
- Grizzly and Polar bears can smell very well but only one has a taste for nuts
- Grizzly and Panda bears can't hear very well

	Grizzly	Black	Polar	Panda
Nutella	Grizzly/Polar	No	Grizzly/Polar	No
Drake	No	Yes	No	No
Smelly clothes	Grizzly/Polar	No	Grizzly/Polar	No
Bright toys	No	No	No	Yes

Puzzle 8: Your Final Hurdle!
Answer: Branch 2

The question for this puzzle asks "what's the first item you should grab in order to try and make your way across the stream as quickly as possible?" with emphasis on the "quickly". With that in mind, the first thing you should try is the longest branch you have available to you (Branch 2), because if that one doesn't reach across the stream, then you'll have to make a combination of rope and branches to get across, BUT if that's long enough to get you across, then you've made it over the stream quickly without reaching for anything else!