

Reasoning and Problem Solving
Multiplication and Division Consolidation – Year 5

Paulo reached the edge of the forest and ran. He knew danger was closing in. Suddenly, an arrow flew past his head and he dived into a cave for safety. Pressing his back against the wall, he held his breath – his heart thudding, but before he knew it, the huge rock at the doorway rolled across and his exit was blocked. Trapped... or was he? He remembered Uncle Deadeye's note. He looked all around and by the cave door spotted some rocks with numbers carved in them. A code!



Puzzle 2

The code is made up of two 3-digit numbers.
 When I multiply the numbers by 100, the ten-thousands in the first number and the thousands digits in the second number are the same.
 The sum of the digits is 6.
 Which two numbers could they be? Numbers can be re-used.
 Press the correct number rocks and the door will open.

2. Which cave number rocks should he press?

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Got it! The rock rolled away and Paulo was free. Tentatively, he stepped from the cave. Silence. His steps turned from walking, to jogging, to sprinting. Still he knew danger was just around the corner.

Up ahead, he saw a pyramid. The searing heat was intense, so he stepped inside for shade. The walls were enormous and Paulo, mesmerized, wandered deeper into the cave, but before he knew it he was lost!

3. A maze - and now he couldn't find the way back out. He searched around for the puzzle. The walls appeared to have numbers carved into them but which numbers should he follow?

Puzzle 3

Find the missing factor pairs.
 Follow those numbers
 through the maze to escape
 through the dashed, green
 exit on the bottom row.

You are positioned at X.

1	48
2	
6	

15	X	18	20
9	48	1	16
35	4	3	12
45	1	16	8
7	42	24	6