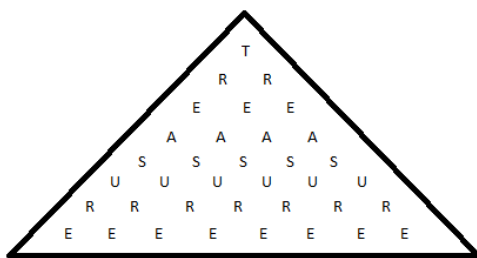


Red Beard's treasure

1. The aim of this puzzle is to find how many paces Red Beard must walk to find the treasure he buried. The number of paces is the number of ways you can spell 'treasure' using the attached image by placing your finger on T, and moving down one row at a time, to the left or right.

2. Replace each letter by the number of routes from the top to that letter under the above rule. Do you notice any patterns?



Hint:

If the person attempting the puzzle is having difficulty, I would give them the hint that the number of possible routes you can take doubles as you go down each row.

Solutions: 1. The solution to the puzzle is 128. ($1 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$).

2. If you replace each letter by the number of routes to that letter, you get Pascal's Triangle. Each number is the sum of the 2 numbers directly above it.

Proposed by Conor Leonard