BRAIN BUSTERS

AN POST LITERACY AND NUMERACY CHALLENGE

an post

Entry Form for Maths Classes

Student Name: _____

Year Group: _____

School Name: _____

School Roll Number: _____

Teacher Name: _____

Teacher Email: _____

Congratulations! You have been left a house by your Aunt Marge; obviously you cannot wait to move in. However, during your first night in the house you are terrified to discover a ghost in your closet! He is furious that you have landed on his turf, nevertheless, he agrees to leave you in peace if you complete three literacy and numeracy challenges...

Puzzle 1:

The ghost introduces himself as Fred, and he tells you he has a box in the attic with a lot of money that he forgot to lodge. When you find the box, you count €6,500 and he explains that the money has been there since before he died. Can you figure out how much would be in a savings account after 3 years, with an annual interest rate of 1.8%?

Answer:

_____

Here's a formula to help

$$F = P\left(1+i\right)^{t}$$

F = Final Value
P = Principal

You have completed the first task!

Puzzle 2:

Fred is enjoying having some company and is afraid he will get lonely. His second task is for you to write him an entertaining letter to read in 5 years' time. To make it more challenging, he says you must include a specific set of terms in your story.

Investigate   Intersect
Explain   Fraction
Compare   Money
Solve   Order
Pattern

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

You have completed the second task!

Puzzle 3:

Fred liked your story so he has decided to leave you to enjoy your new house in peace. His last challenge is to pick the right door for him to leave. There are 5 doors in the hallway and they each have a number on them. However only one door leads Fred out of the house. He gives you 4 clues to help you decide which door. What door should he exit?

1. The number is not a prime number
2. The number is an integer
3. The number is not a factor of 16
4. The number is not the probability of an event that is impossible to happen

0   10   3.14159...   8   2
              π

Answer:

_____

You have selected the correct door. Fred is sorry to be leaving but has promised to come back and visit. He may have more puzzles for you the next time!