



JAN 2019

DEPARTMENT OF MATHEMATICS
PROBLEM SOLVING CHALLENGE

Q1.

Junior Cycle

You are by a lake with a 7-litre and a 5-litre bucket. How do you measure out six litres in the fewest possible pourings?



Q2.

Senior Cycle

Niall makes regular monthly instalments of €550 into his bank for 6 years. For the first three years the bank offers him an AER of 4.5%. For the remaining years the bank offers him an AER of 4%. Find how much money Niall has saved at the end of these 6 years.

Hint: $\sum_x^y T_n = \sum_1^y T_n - \sum_1^x T_n$

Answers on an A4 sheet with your Name, Year and Class should be given to Mr. McManus or to Mr. McEvoy in room 33 before 4pm on Thursday 31st of January.

Monthly Prize for both **Junior** and **Senior** Cycle.*

Good Luck.

Junior Cycle students answer question 1 only.

Senior Cycle students answer question 2 only