



SEPT/OCT
2016

DEPARTMENT OF MATHEMATICS
PROBLEM SOLVING CHALLENGE

Q1.

Junior Cycle

Three pumpkins are weighed two at a time in all possible ways.
The weights of the pairs of pumpkins are 12 kg, 13 kg and 15 kg.
How much does the lightest pumpkin weigh?

Q2.

Senior Cycle

In the following sequence of numbers, give the next two numbers in the sequence.
Explain your answer in each case.

- a) 1, 3, 6, 10, 15, 21, 28, _____
- b) 0, 1, 1, 2, 3, 5, 8, 13, 21, 34, _____
- c) 2, 6, 12, 20, 30, 42, 56, _____
- d) 1, 2, 6, 24, 120, _____
- e) 7, 26, 63, 124, 215 _____
- f) 2, 5, 17, 65, 257 _____

Answers on an A4 sheet with your Name, Year and Class should be handed into the office or given to Mr. McEvoy before 4pm on Friday 28th of October.

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

Good Luck.

Junior Cycle students answer question 1 only.

Senior Cycle students answer question 2 only