



Maths
Junior Certificate
Higher Level

Past Exam Questions on
PM Inequalities

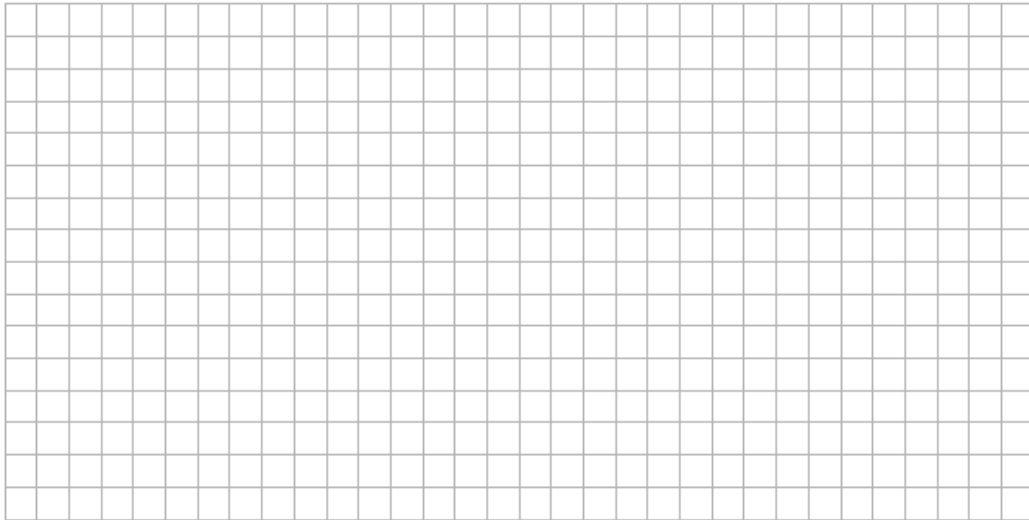
Q11 2013 Paper 1

Question 11

(Suggested maximum time: 10 minutes)

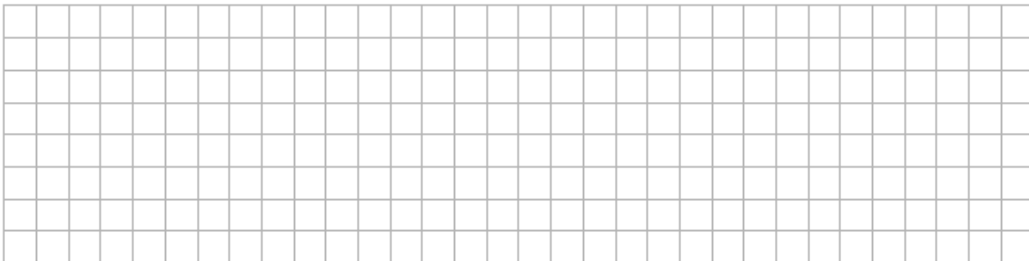
- (a) Solve the following inequality and show the solution on the number line.

$$-2 \leq \frac{1}{2}x - 3 < 1, x \in \mathbb{N}.$$



- (b) Josephine hopes to go to college. She has saved €3000. She will attend college for 32 weeks in her first year. She plans to have at least €800 left at the end of the year.

- (i) If she spends € x each week, write an inequality to represent her spending during the year.



- (ii) Hence, or otherwise, find the maximum amount Josephine can spend each week.

