To suggest a line of enquiry and the strategy needed to follow it.

In Farnham, there are 'no parking' areas. If a car is parked there, the owner is fined £1 for the first day, £2 on the second day and £4 on the third day.

Problem 1

How much would I be fined if I parked illegally for 6 days?

Day	1	2	3	4	5	6	
Day's Fines (£)							
Total Fine (£)							

Can the fine ever be exactly £100? Work with your partner and explain.

Day	1	2	3	4	5	6	7	8
Day's Fines (£)								
Total Fine (£)								

Problem 2

After how many days would the fine increase beyond £2000?

Day	1	2	3	4	5	6	7	8	9	10	11	12
Day's fine (£)	1	2									1024	
Total fine⌈L SEP⌉(£)	1	3										4095
New System (£)												

Problem 3

A car owner has parked illegally for 12 days. How much would he be fined?

What if the system changed and the fine totalled £350 per day?

Day	1	2	3	4	5	6	7	8	9	10	11	12
Day's fine (£)	1	2										
Total Fine (£)	1	3										
New System (£)												