

## Odds, Evens and More Evens

### **Alison started by thinking:**

"I have noticed that each number is double the number in the row above. I wonder if I can work out what would go in the rows above 1000?"

### **Bernard started by thinking:**

"I have noticed that in  $A_1$ , the numbers which end in a 0 are 10, 30, 50... If I carry on going up in 20s I won't hit 1000, so I know 1000 isn't in  $A_1$ ."

### **Charlie started by thinking:**

"I have noticed that each number in  $A_1$  is 2 more than a multiple of 4. I know 1000 is  $250 \times 4$  so it can't be in  $A_1$ ."

**Can you take each of their starting ideas and develop them into a solution?**