

Challenge 1



Patrick, a fanatical swimmer, decided to swim around his home bay. Each day he swam a little less, due to exhaustion, but his pattern started off as 21 km day one, 18 km day two, 15 km day three, and so on.

- How many days did it take Patrick to swim the 81 km around his home bay?



Challenge 2



What is the mystery number?

- It is an even number.
- It is less than half of one hundred.
- Its two digits added together equal 10.
- It cannot be evenly divided by 3, 4, 5, 6, 7, 8 or 9.



Challenge 3



Campbell's bicycle shop in Birmingham only sells the latest helmets for £60 and lycra bike shorts for £35. One Saturday morning Campbell sold 10 items for a total of £425.

- What combination of helmets and bike shorts must Campbell have sold?

