

Congratulations!!



1. $77777777 \times 99999999 = 7777777622222223$
2. There are a total of 204 squares on a chess board, including all sizes from 1×1 up to 8×8 .
3. The three large numbers can all be divided by 151.
 $163231 = 151 \times 1081$
 $152057 = 151 \times 1007$
 $135749 = 151 \times 899$
4. On average, you must roll a dice about fifteen times in order to get one of each number. (The exact theoretical answer is 14.7 times)
5. Using only one of each letter in the alphabet, you can spell:
ZERO or NOUGHT
MINUS TWO (allowing negative numbers)
FIVE THOUSAND
SIXTY CUBED (=216 000)
These are the smallest and largest possible numbers.
6. The smallest area of paper required to wrap the parcel ($15 \times 25 \times 40$ cm) is 4400 cm^2 , either as 110×40 cm, or as 55×80 cm. In either case you will need to use Sellotape to fix the ends, but it can be done!