

The five number game

Take any five numbers between 1 and 99 inclusive. Write them in **ascending** order. Now add the first and the second; the second and the third; the third and the fourth; and the fourth and the fifth.

Score points as follows: every square number is worth two points; every cube number is worth 3 points; every prime number is worth 2 points. (Numbers that are both squares and cubes only get 3 points.)

What is the **highest** score that you can get?
In how many ways can you get it?

What is the **lowest** score that you can get?
In how many ways can you get it?

1 2 3 4 5 95 96 97 98 99