5 Six different digits are chosen from the nine digits 1, 2, 3, 4, 5, 6, 7, 8, 9.
These digits are used to form a 6-digit number.
Find how many 6-digit numbers can be formed in the following cases.

(a) There are no restrictions. [1]

(b) The number is greater than 700 000. [2]

(c) The number is greater than 750 000. [3]

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN

6 The line $y = 3x + 4$ meets the curve $y = 2x^2 + 8x + 1$ at two points A and B.

Find the equation of the perpendicular bisector of AB, giving your answer in the form $ax + by + c = 0$, where a, b and c are integers. [9]

DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN