Guzzinta Copymaster 4: Problem related to divisibility by 4, 6, 8, 9

1. Which of the following numbers are divisible by at least one of 4, 6, 8 or 9?

   (i) 724; (ii) 1280; (iii) 2346; (iv) 7821; (v) 85464; (vi) 52464; (vii) 121212.

2. For what values of b are these numbers divisible by both 4 and 6?
   (i) 73b; (ii) 3b8; (iii) b80; (iv) 64b4; (v) 83b48; (vi) 371bb; (vii) 4b4b1b.
3. Find a and b so that these numbers are divisible by both 8 and 9.
   (i) 2ab; (ii) ab5; (iii) a18b; (iv) ab26; (v) 8ab4b; (vi) 4abba4; (vii) bababa0.
4. I live in a street where the numbers go up to 10000. I know that my house is the one with the largest number that is divisible by 4, 6, 8 and 9? What's the number of my house?
5. My friend lives in the same street. The number of his house is the largest one that is divisible by 4 and 6, but not 8 and 9? What's the number of his house?