



distinct regional parties. IDA decides to contest on 100 seats for the upcoming parliamentary elections. IDA wants to share these seats in such a way that no any ally gets the same number of seats to contest and no two allies contest for the same seat. Also each of the allies must get at least 1 seat to contest. Find the number of ways of allocating the number of seats for the three constituents of the IDA?

(a) 4704

(b) 4851

(c) 4884

(d) 3667

86	Bill Gates personally announced that he would be building 49 toilets in 3 select Indian villages A, B and C, as part of the pilot project. In how many ways these toilets can be built in 3 villages such that village A gets more toilets than that of village B and village B gets more toilets than that of village C? (a) 98 (b) 196 (c) 188 (d) none of these

90 Find the total number of non-negative integers less than 1000 for which the sum of the digits is 10. (a) 63 (b) 66 (c) 67 (d) 56 Directions (for Q. Nos. 91 and 92): Hirabhai after marrying Hiraben settled in Hiranandini, Mumbai. He has 15 diamond rings and 5 daughters. Among his 5 daughters, he has only one	01
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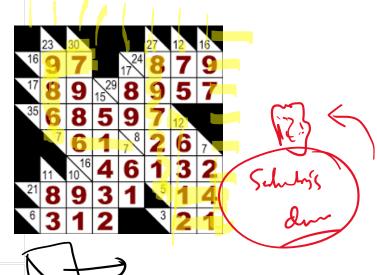
93 Find the number of positive integral solutions of the equation $x_1 x_2 x_3 x_4 = 462$

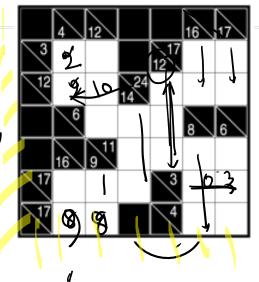
(a) 128

(b) 1024

(c) 256

(d) 64



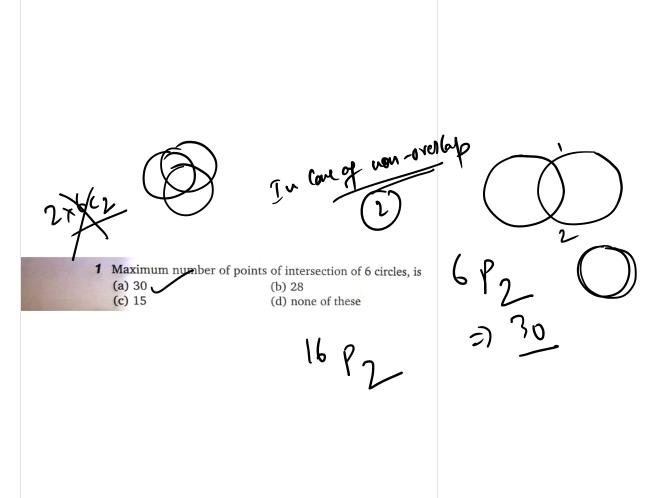


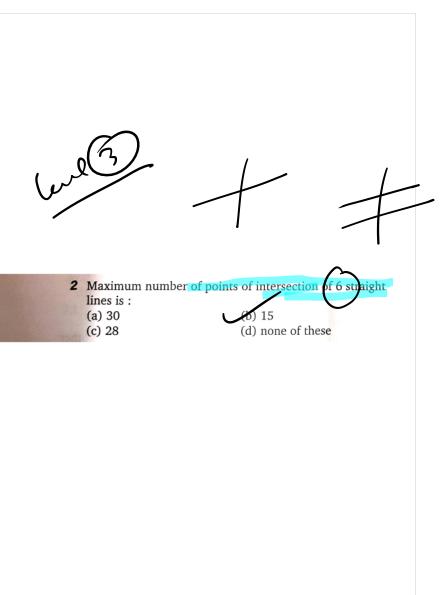
94 Find the number of integral solutions of the equation

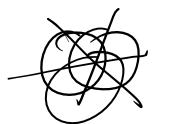
(a) 2048

25 ravelime. Hen only my prompte. (d) 1024

104 Each employee in our office at Lamamia must wear a shirt, a tie and a pair of pants to dress up oneself. Thus, any employee in our office can wear exactly 105 distinct combinations with the help of different colours. No two employees have equal number of quantities of all the three things individually. That is no two employees have x shirts, y ties and z pairs of pants. No two employees have the same colours of their clothes. Maximum how many employees are there in our office? (d) 105 (a) 24 (b) 27 (c) 35









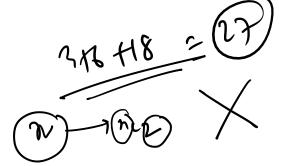
3 Maximum number of points into which 3 circles and 3 lines intersect is:

(a) 21

(b) 9

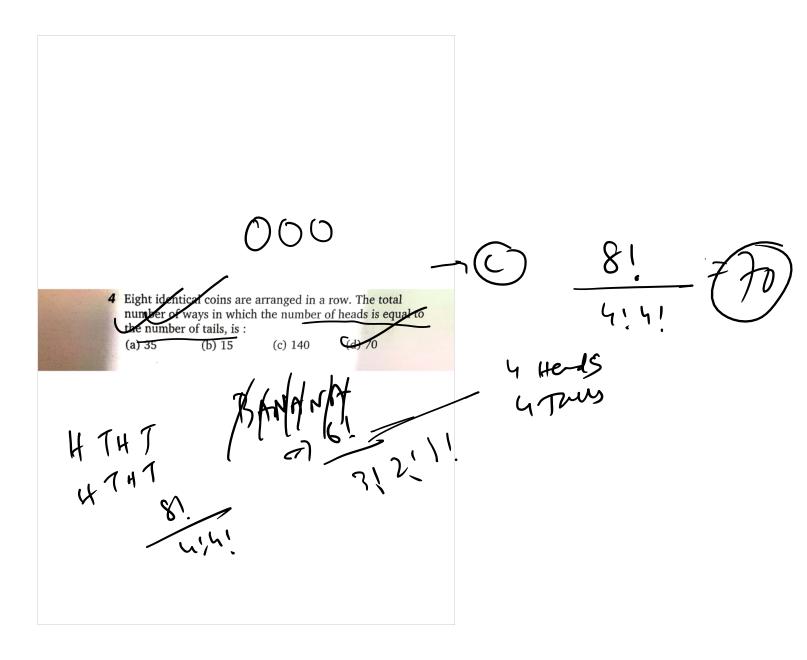
(2) 27

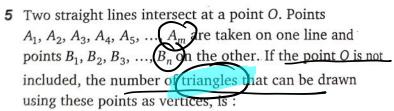
(d) 3!



312 = 6

376 = 18 (1) sharte combe (1) sharte brime (1) sharte au Att au



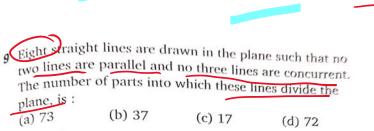


(a) ${}^{n}C_{2} + {}^{m}C_{2}$ (b) ${}^{2n}C_{2}$

(c) $^{m+n}C_2$

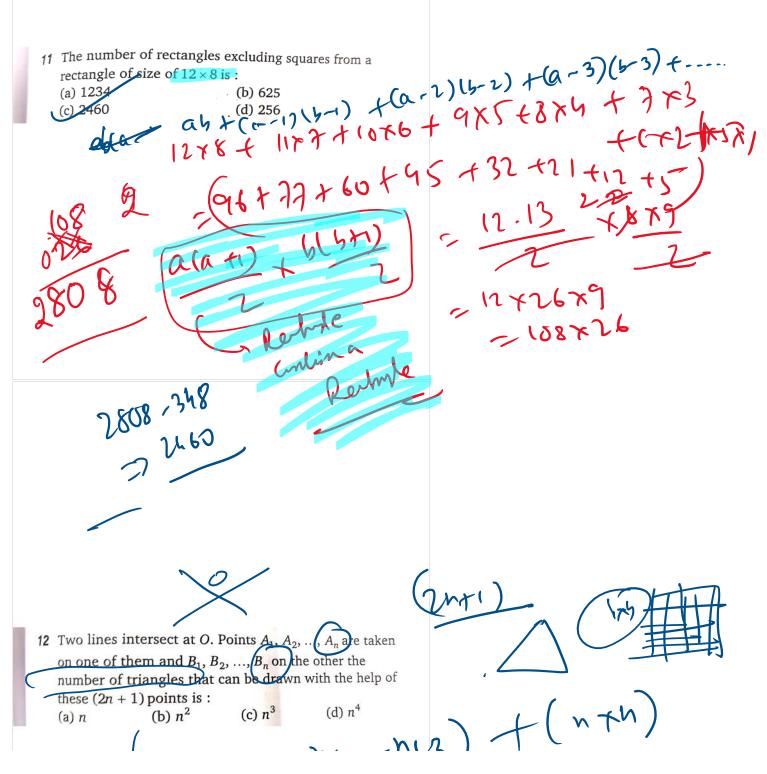
(d) none of these

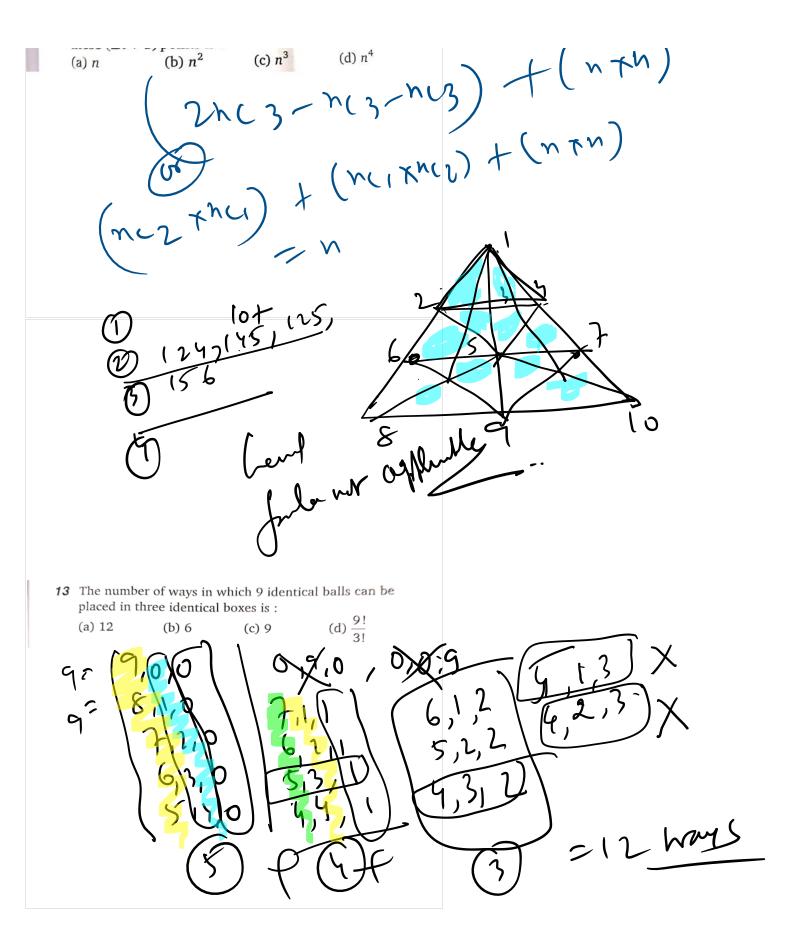
to	6	How many differ from the number so that the odd d (a) 60 (c) 88	22 33 55	888 by rear	ranging its digits



2 stotsupscz

10 Number of divisors of the form $4n + 2(n \ge 0)$ of the integer 240 is : (a) 6 (b) 4 (c) 3 (d) 12





14 The number of ways be given to six person than 4 rupees is: (a) 246 (c) 30! 6!	in which 30 coins of one rupee each as so that none of them receives less (b) 462 (d) none of these

18	The number of permutation LUMINARY such that neither MINA occurs is: (a) 46800 (c) 40086	ns of the letters of the word er the pattern LURY nor (b) 24600 (d) none of these	

19	10 students are to be seated in two rows equally for the MOCK CAT in a room. There are two sets of papers, code A and code B. Each of the two rows can have only one set of paper but different that from the other row. In how many ways these students can be arranged? (a) 2775600 (b) 1200560 (c) 125600 (d) 7257600

20	(4) 10	ticular day <i>n</i> guests attend the guest shakes hands with each to be total 65 handshakes,

3410 = 30 mem > mining 3 mems weak 10 10 - 1 C 10 - 1 Avery 20 > 10 - 1 29 cq

- 21 The number of ways in which an examiner can assign 50 marks to 10 questions giving not less than 3 marks to any question is:
 - (a) 29C
- (b) ⁴⁷C₃
- (c) $^{52}C_2$
- (d) ${}^{40}C_{10}$

