PROBABILITY

(A) The BABELETY (ANSWERS)
PLEASE ONTACT > G102AR8678
IFAM/DEVICETING: THE COMMENT
L(A)
$$m(s) = 10C_3 = (\frac{10 \times 71 \times 8}{3 \times 2}) = 120$$

NFM; $m(E) = (AC_1 \times 6C_1) = (A \times 6x5) = 60$
 $\therefore P(E) = \frac{m(E)}{m(S)} = (\frac{20}{120}) = \frac{1}{22}$
 $2 \cdot (E) m(s) = 27C_1 = 27$
 $m(E) = 10C_1 + 7C_1 = (10+7) = 17$
Note: $P(E) = \frac{m(E)}{m(S)} = \frac{17}{221}$
 $3 \cdot (E) m(s) = 6^{2} = 36$
 $m(E) = 10C_1 + 7C_1 = (10+7) : (A, 5); (A, 6); (A, 7); (A, 5); (A, 6); (A, 7); (C, 7)$

(a) Propagation (Answers)
(b)
$$n(s) = 22$$
, [Since, Total noof balls $(\theta+(t+s))=22$,
 $1 = 2^{2}$
 $n(E) = n(E)$, $getting blue halts) = 8c_{1}=8$
 $P(E) = n(E)$, $getting blue halts) = 8c_{1}=8$
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 $P(E) = n(E)$, $getting blue halts = 8c_{1}=8$
 $P(E) = n(E) = (2)$
 $P(E) = 1-P(E) = (1-3) = (1-3)$
 $P(E) = 1-P(E) = (1-3) = (1-4)$
 $P(E) = 1-P(E) = (1-3) = (2-3); (2,4), (2,5); (2,6)$
 $(1,2); (1,4); (2,2); (2,3); (2,4), (2,5); (2,6)$
 $(1,2); (1,4); (1,4); (1,6)$
 $(1,2); (1,4); (3,4); (3,5)$
 $(3,2); (5,4); (5,6); f = 27$
 $P(E) = n(E) = 27$

A1 - 7 - 13

$$(A) \begin{bmatrix} e e e A A E E E E \\ A (a) = e \\ A (b) = E \\ A$$

(A) Presentation Answer
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$$F(E) = \frac{n(E)}{n(E)} = \frac{1}{12} = \frac{1}{12}$$

 $n(E) = 4C_{2} = \frac{(10 \times 1)}{2} = 45$
 $n(E) = 4C_{2} = \frac{(10 \times 1)}{2} = 46$
 $n(E) = 4C_{2} = 4C_{1} = \frac{(10 \times 1)}{2} = 46$
 $n(E) = 4C_{2} = 4C_{1} = \frac{(10 \times 1)}{2} = 46$
 $F(E) = \frac{n(E)}{n(2)}$
 $n(E) = 4C_{2} = 4C_{1} = \frac{(10 \times 1)}{2} = 46$
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 $n(E) = 4C_{2} = 4C_{1} = \frac{(10 \times 1)}{2} = 45$
 $n(E) = \frac{n(E)}{n(5)} = \frac{10}{2} = \frac{10}{21}$
 $n(E) = \frac{n(E)}{n(5)} = \frac{10}{2} = \frac{10}{21}$
 $n(E) = \frac{n(E)}{n(5)} = \frac{10}{2} = \frac{10}{21}$
 $r(E) = \frac{n(E)}{n(5)} = \frac{10}{2} = \frac{10}{21}$
 $r(E) = \frac{n(E)}{n(5)} = \frac{10}{2} = \frac{10}{21}$
 $r(E) = \frac{n(E)}{n(5)} = \frac{10}{45}$
 $r(E) = \frac{n(E)}{n(5)} = \frac{10}{45}$
 $r(E) = \frac{n(E)}{n(5)} = \frac{116}{45}$
 $r(E) = \frac{n(E)}{n(5)} = \frac{116}{45}$
 $r(E) = \frac{n(E)}{n(5)} = \frac{116}{45}$
 $r(E) = \frac{n(E)}{n(5)} = \frac{116}{56}$
 $r(E) = \frac{30 + 15}{56} = \frac{15}{56}$

NUMBER SYSTEM

NUMBER SYSTEM (B) [ANSWERS] 1. (1) Lets Light at tens and Ones place be 2x and 3x. So, the number is = $\frac{2}{2x \times 10} + 3x^2 \int \text{Since}; N = 10a+b$ After interchanging number Will be = {(3x × 10) + 2x} = 32x $\frac{\therefore According to the question}{322 - 232} = 27$ => $\chi = 3$: The number is = $((2\times3)\times10 + (3\times3)) = [69]$ 2. (1) Divisor = $(5 \times 46) = 230$ Atso; $109 = 230 \Rightarrow 9 = 23$ [Since; 9 = 9 ubient] and Remainder = 16. : Dividend = ((230 × 23) + 46] = 5336 $\chi = \frac{5}{12}$ 3: (Let the number is x. $\frac{2}{3}\chi = \frac{25}{216}\chi \frac{1}{2}$ $= \chi^{2} = \left(\frac{25}{216} \times \frac{3}{2}\right) = \frac{25}{144}$ A. (1) Let the old numbers are x and (x+2) Here; (2+2) = (82+1) ·· ~ (2+2) = 6723 =) x+2x+1 = 6729 = 83 => (2+1)= 6724 ラ (2+1) = 82 ··· 2, (2+1); (2+2)

5: (a) Let the number is x. 3x + 10 = x = 2x - 10 = 1 = 1 $\frac{3x}{5} + 60 = \chi \implies \frac{2x}{5} = 60 \implies \boxed{\chi = 150}$ (0) $\cdot 01 = \frac{1}{10^2} = 10^{-2}$ (1) $(0.0001)^{2} = (\frac{1}{104})^{2} = \frac{1}{108} = 10^{8}$ $\frac{10^{-2}}{10^{-8}} = 10^{6}$ I: (c) Let the fraction its 2. $\frac{(x+x)}{(y+2y)} = 1\frac{1}{15} \Rightarrow \frac{2x}{3y} = \frac{16}{15}$ $\frac{3}{2} = \frac{3}{5} = \frac{13}{5}$ 8 (b) According to given obtion : (i) 5th digit = 1 ; (ii) Second digit = (1+5) = 6 (iii) 3th digit = 4 ; (iv) 4th digit = 2 (v) 1st digit = (4×2) = 8 The Required answer is = [8642] 9 (c) M The number is n = 79+2 [Since; g = guohient] $\therefore m \cdot n = 79+2$ [Since; g = guohient] Now; 3n => (210+6) => Remainderis -> 6

(IF) NUMBER SYSTEM (3) [ANSWERS] 10' The Sum of 3 Consecutive even number in 40 more than the average of these numbers. Which of the following is the 2nd largest number? (x + x + 2 + 2 + 4) = 40 + (2 + 2 + 2 + x + 4)10. (According to question) $\frac{3}{2} \quad \frac{3}{2} + 6 = 40 + \frac{(3}{3} + 6) = \frac{3}{3}$ $= \frac{2}{3} \quad \frac{(3}{3} + 6) = \frac{40}{3}$ $\chi = 18 \implies$ The Required answer is = (18+2)=2011. (~) 27] = (1×2×3×---×27). The factorial after 5. Should end with Zero. Then the Unit digit is []. 12. (d) Leng. 12, 16, 18, 21 is 1008. :. The number is = (1008×2) = 2016 :. The leastnumber (N) = (2016-200) = [16] 13. (d) Let the maximum mark is .5%. According to the question: 2x = (198+36) = 239 Now; Mar. mark = 52] 2 = 117 = 585 $\frac{14}{30} \text{ Wrongly alteraped} = (30\times3) - 30 = 12 \text{ question}$: Correctly attemped = (30-12) = [18 questions

15: (1) By Option feet: (1) All numbers will be divisible by 5 because in endit is 5 and. The and 0. (ii) The number divisible by 11; then -> (9+4+0)-(7+2+1) i. from the option ; x=1 and y=5 saties fies the ... The Required answer is = [1 and 5 above Conditions. 16 Let The Smaller no = x; then the larger = (2+2577) ():. x + 2577 = 26x + 2 $\therefore The Required number is = (2+2577) = (103+2577)$ 17: (~) (58:4) -> Remainder is 2. (9)"= 81 -> The Unit place is [F] 18: (6) The divisor a = ? (17+11) - 4] = [24] 12 (c) The number is = 100 a + 106 + c Notify C = 2b; $b = \frac{c}{2}$ and c = 1.5a; $a = \frac{c}{1.5}$: $a+b+c=13 \implies (c+c+c)=13 \implies c=6$ b=3; a=4. The Required number is -> (436 20. Leng 2, 3, 4, 5, 6 is 60. . The number (1) (1)= 60x+1. The N is enactly ... The Required answer is N= 260x5)+17= 201 301 divisible by 7. Now; 2=5. (3+0+1)=4

SIMPLIFICATION

SIMPLIFICATION (C) [ANSWERS] 2177 1. 1524. 79 × 19.92 + 495. 26 $= \left[(1525 \times 20) + 495 \right] = 30995 = 31000$ $= 1548 + (3065 \div 15)$ = (1548 + 204.33) = (1548 + 204) = 1752 = 1750] 2. (1)15 +8. 45 + 3065. 15 + 15. 058 3. (A) 25 × 3.25 + 50.4 ÷ 24 $= (25 \times 3) + (50 \div 29)$ = (75 + 2.08) = 77.08 \(\sim \begin{bmatrix} 77 \\ 1 \end{bmatrix} = 77.08 \(\sim \begin{bmatrix} 77 \\ 1 \end{bmatrix} \end{bmatrix} \end{bmatrix} \end{bmatrix} \end{bmatrix} \end{bmatrix} = 77.08 \(\sim \begin{bmatrix} 77 \\ 1 \end{bmatrix} \end{bmatrix} \end{bmatrix} \end{bmatrix} \end{bmatrix} \end{bmatrix} = 77.08 \(\sim \begin{bmatrix} 77 \\ 1 \end{bmatrix} = 77.08 \(\sim \begin{bmatrix} 77 \\ 1 \end{bmatrix} \end{ 1. (c) [833.25-384.45)÷24 $= (833 - 384) \div 24$ $= (449 \div 24) = [18.7]$ $5 (c) 3237 \div 31 \times 15 = ? \times 17 \rightarrow 2 = \frac{104 \times 15}{17}$ =) $\frac{3237}{31} \times 15 = 17 \times ?$ =) $\frac{3237}{31} \times 15 = 17 \times ?$ =) $(6 \cdot 11 \times 15)$ =) $(6 \times 15) = 90$ $\frac{6}{(2)} \left(\frac{78125}{7}\right)^{1.3} \times \left(\frac{15625}{\div}\right)^{1.25} \div \left(\frac{125}{2}\right)^2 = 5^?$ $\Rightarrow (5)^{7 \times 1^{\cdot 3}} \times (5)^{6 \times 1^{\cdot 25}} \div (5)^{3 \times 2} = 5^{?}$ $= 75^{9.1} \times 5^{7.5} \div 5^{6} = 5^{?}$ $=? 5^{(9.1+7.5-6)} = 5^{?}$ ⇒ ? = [10.6]

LIFICATION (S) [ANSBERS] (20) = 87 × 36 ÷ 26 - 80 [Since; Taken the approximate = 87×36 00 7: 10 V7580 × V 1325 ÷ V665 - V6395 - 1 $= (87 \times 1.4) - 80 = (121.8 - 80) = 41.8 = 1.8$ $=\frac{87\times36}{26}-80$ 18 (2) 79.008 / of 799.998 + 42.99 / f 192.79 - 53.93 f 69972 $= \left(\frac{79 \times 800}{100}\right) + \left(\frac{43 \times 500}{100}\right) - \left(\frac{54 \times 700}{100}\right)$ = (632 + 215 - 378) = 4692 (63.83) + (56.96) - (77.81)2 = (69) + (57) - (78) $= (4096 + 3249 - 6084) = 1261 \approx 1260$ 10: (21.9.1. of 260) + (60.01 / of 510) - 103.87 = (30 % of 260) + (60% f 510) - 109 $= \left(\frac{30\times260}{100}\right) + \left(\frac{60\times510}{100}\right) - 104$ = (78 + 306 - 107) = 280 X-