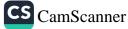
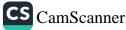
Samim Shah Good for math portion Section - I Write complete logic -Work on theory portion too Write complete logic and steps Question #7 (a) Given Data: Total Seats in concert hall = 400 Ounpied seats = 325 To Find : - - ----Attendance at a generat of capacity = ? The given appression is the question 1 follows; total seat 400, 35 as occupied 325. Hence attendance at a percent of capacity is, Attendance percentage 325 × 100 400 813 325 32 5.2 5.2 Attendance in percetage = 81 3 %



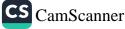
Q # 7" part (b) Given Data: Case 1: Persons = 30 weight of sugar = 40 kg No. of days = 60 days lase 2: Persons = 80 weight of sugar = 320Kg of sugar No. of days = ? To Find : Number of days 80 persons consume 320kg of sugar = ? Solution: Persons weight No. of days 40 49 \$0 30 80 320 49 have to take compound ratio So, we of 10:320 \$0:30 and Then 40 80×40 : 30×320 10:2 3100 : 9600 Since, the ratios and equal, the product of extremes is equal to the product of means of 320 30 = x × 3200 10 x 9600 96000 = x x 3200 96000 = 7 3200



160 = x 32 7 = 30 dan 32 060 Hence, 80 persons use 300 kg of sugar in 30 days. - 9 Porrt (c) Given Data: Cow Travels South = 5 km West = 3 Kmnlowth = 4 KmSouth-east = 2 Km To Find : the The distance from its initial point = ? Solution Initial print Given Diagrom is h 2.4 Km K-1-40 5KM 4Km P 2.6Km 2.6 Km 3Km The question bills that the crows goes to south-east it form an angle of 45° with its adjacent. Hense, sine 45 opposite hypotenuse



sin 45° = DC CE $= \frac{DC}{\gamma}$ DC = JZ ie days = 1.91 km DC we have to find DE. Form Pythagoreus Now we know theorem $(Hyp)^{\prime} = (Perp)^{\prime} + (Base)^{\prime}$. 41 41 $(2)^{2} = (DE)^{2} + (1.41)^{2}$ $= (DE)^{2} + 1.98$ 4 1411 12 3-188-1 4-1.98 = (DE)2 J2.011 = J(DE)2 1.40 DE As the total base line: the crow's travel te west is 3K. Then Bo BC = BD - DE BC = 3-1.41 Diagram 151 BC = 1.59 Km Now LABC (Hyp) = (Perp) + (Base) 2 (1.59)²/2 (2.4)² + (1.59)² : 5-1.40 3. = 5.76 + 2.5281 J (4+yp)2 = 18-28 1 Hyp = 2.9 Km 8 X Hænce, the crow will be 2.9 km away from his initial position 17952 2.5281 5.71 8.28



0#7 Part (d) Given Data: Radius, r = locm Height, h = 36 cm To Find : Volume, V = ? Solution: uplinder = ISh Volume o I82h 7 = (3 14)(10) (36) (3.14)(100)(36) :. = 3.14) (3600 T 11304 cm 14 360 10800 1130



Part (c) Question # 8 Total Area = ? To Find. Perimeter =? Given Shape: 12 cm B A 12 cm ISCM) E D 4 F Area of Rectangle ABCD : = l × W A = 12 × 12 $A = 144 \text{ cm}^2$ Area of Triangle LADE : $\frac{dtop}{2} = \frac{1}{2} \cdot b \times h = 0$ 255 75A $(P)^{L} = (Penp)^{L} + (Ease)^{L}$ (12)²+ (Base)² 144 + (Brse)² 225 144 = (Basy) 225 -144 = /(Base)2 -, DE Bas 9 cm = $= \frac{1}{2} \cdot \frac{(9)(12)}{(108)}$ $= \frac{1}{2} \cdot \frac{(108)}{(108)}$ Then Area = 54 cm



Area of square DEGF As DE = 9cm Then DE = DG = GF = EF = 9 cmArea = $(9)^{2}$ Area A $= 81 \text{ cm}^2$ Total Area : Total Aven = Aven of square ABLP + Area of Triangle AD Area of square DGEF Total Area = 144 + 54 + 81 Total Area = 279 Perimeter = AB+BC+OC+AD+AE+DG+FG+FE 12+12+12+12+15+9+9+9+9 = 48+15+27 = Perimeter = 90 cm



Part (d) Q#8. Giren Expression: 15, 15, 16, 16, 17, 17, 18, 19. Definition of Terms : Mean: The average value of all numbers in a given expression is called mean. Median: The middle in a given expression/serve is called redian. Mode : The most prequent number is called mode. Range : Difference between Highest and lowest number in a series is called range. 30 Calculations : 37 9 $mean = \frac{15+15+16+164+17+17+18+19}{8}$ 12 m 3 1 1 m 193 Mean 242 $\frac{16+17}{2} = \frac{33}{2}$ Median Median = 16.2



Mode = Range = 19-15 Range = _____×_____× Part (b) Given Data : 12 cands numbered 1, 2, 3, 4, 5, ..., 12 To Find : Probability of 8 = ? Probability of even number = ? 1 probability of negative number =? a number less than 13 =? Solution: Sample Space = 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 be the event selecting '8', then n(A) = 8 Le Probability = Numbe of desired outcom since; Total number of autom $\frac{P(A)}{n(B)} = \frac{n(A)}{n(B)}$ P(A) 1/12



Let A, be the event selection 'even numbers' n(A) = 2, 4, 6, 8, 10, 12then P(A) = n(A)n(s) $P(A) = \frac{6}{12}$ let A be the event selecting negative mubers' n(A) = 0then $P(A) = \frac{n(A)}{n(s)}$ $P(A) = \frac{o}{12}$ p(n) 0 let A be the event selecting number less than 13', Then n(A) = 1, 2, 3, 1, 5, 6, 7, 8, 9, 10, 11, 12p(A) = n(A)n(S)P(A) = 1212 • P(A) =

