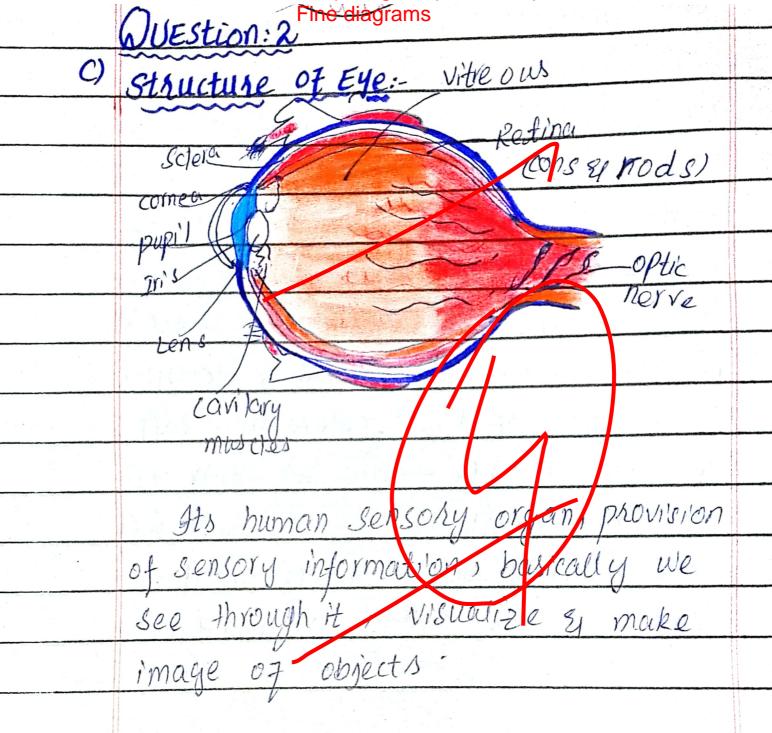
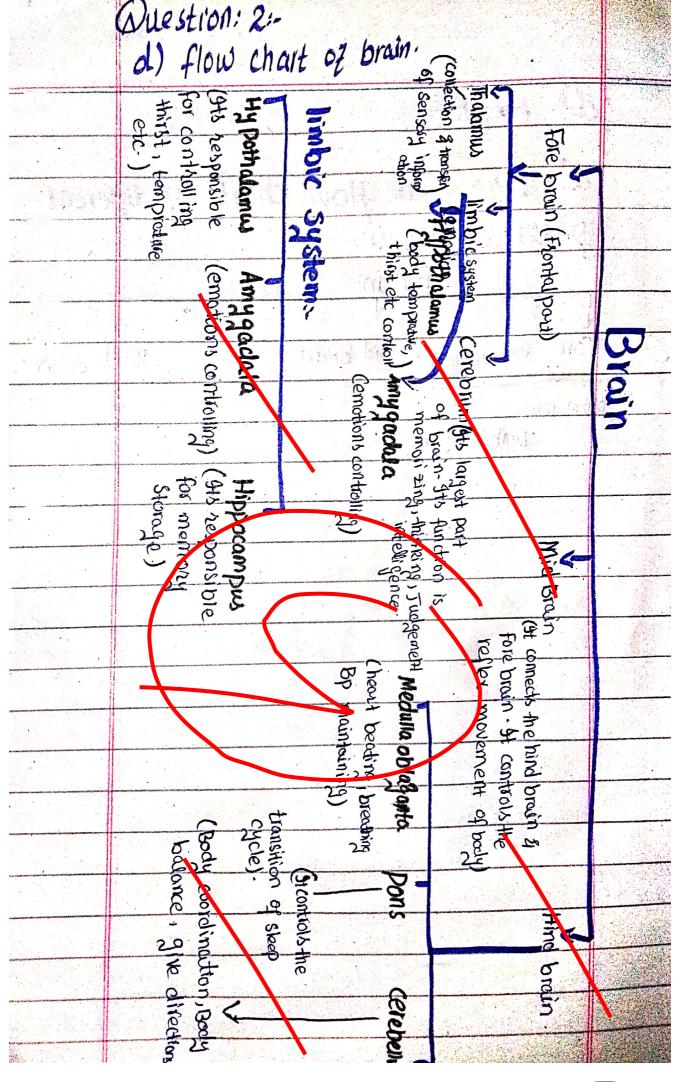
Attempt 2 questions from section 2. 3 are not allowed

Last question is not considered Keep length equal for all parts





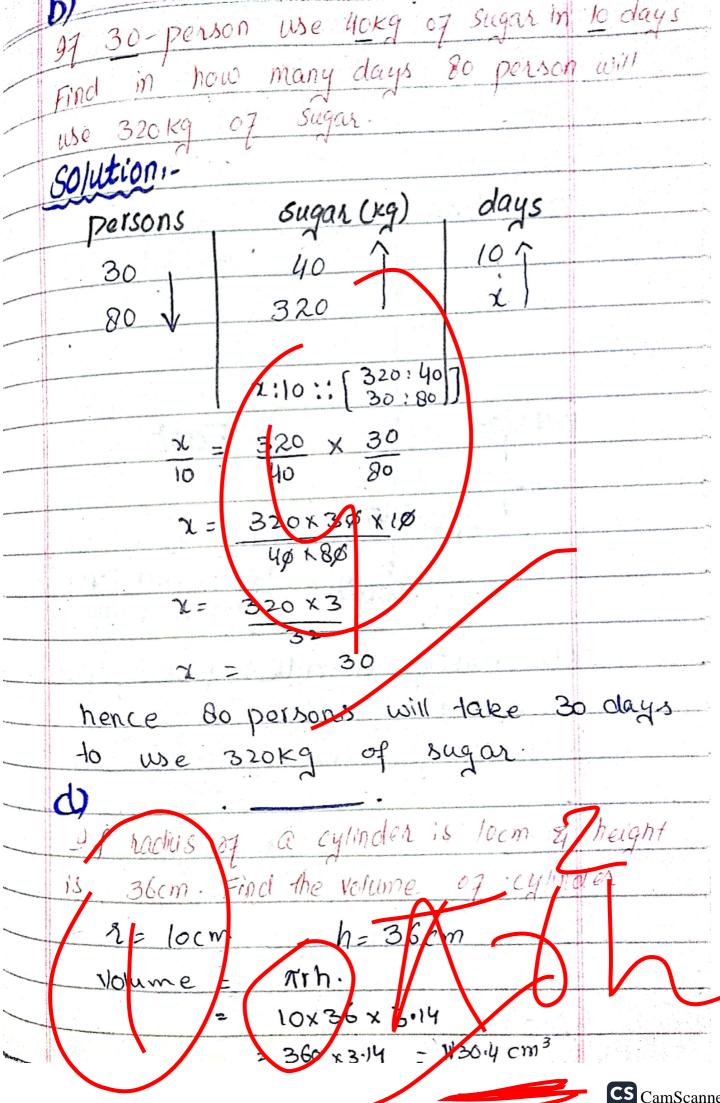
W-6 A farmer cuts a 300 H fence into two pieces of different sizes the longer priece should be four times a long as the shorter piece long one two HOW pieces: 300 ft Let the length of shorter piece = x => length of longer piece # 42 as total fence who so we can white 2+4x= 300 5x= 300 X= 300 x= 60 ft. Honce length of shorter piece = 60ft. so length of longer piece= 4(60) = 240ft. **b**) If a rectangle has a length that is three more than twice the width and the perimeter is 20 inches. What are the dimensions of rectangle? Let x & y are the width

and length of hectangle recpective	Ч
if length is three more than twice	
the width $\Rightarrow$ $y = 2x+3 - (i)$ given that perimeter= $\frac{2x-y=-3}{2}$ inches	
given that perimeter= 20 inches	
 as we know perimeter of recta	nole
· = > (stength Awidth)	
$\Rightarrow$ $2(x+y) = 20$	
x + y = 10 - (ii)	
170m (v & (ii)	
X+4 = 10	
3x = 7 $1 = 7 = 2 - 33 = 1$	incihes
Put in 199	
2-10-7	7.33
y = 30-7	3 7
3	10
$\frac{3^{2}}{3} = \frac{23}{3} = \frac{266}{3}$ inches	
hence lengther is 7-66 inches	3/23
2 width 1/3 2-33 inches.	20
	18

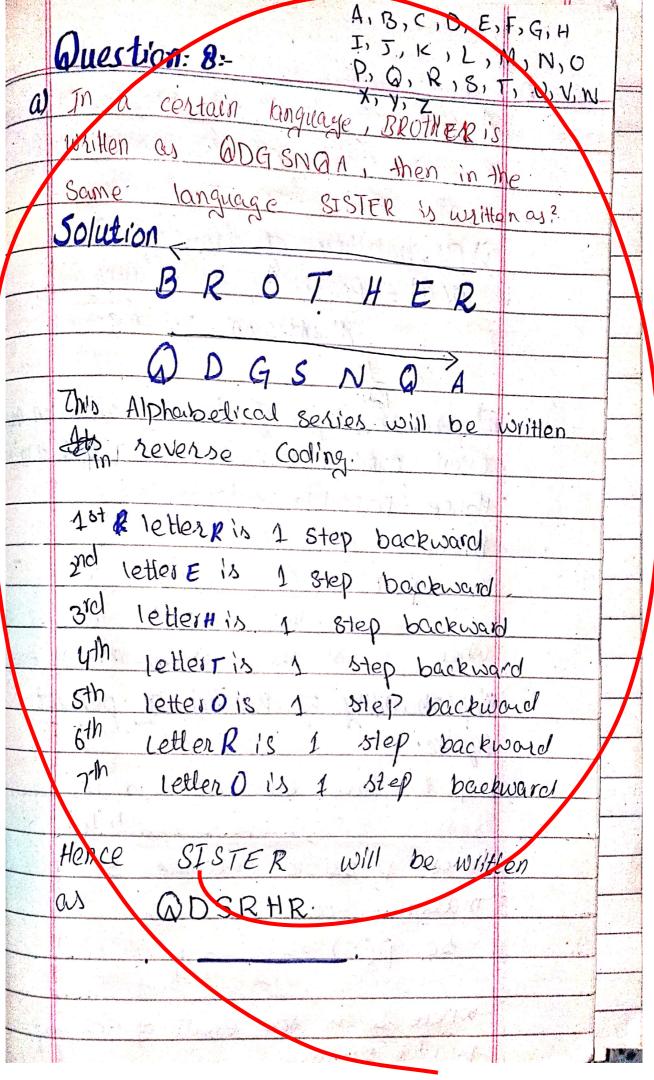
A cricket team won 60% of total mas	eches.
played during the upon of 17 1050 a	14
matches in all & no madeh was a	rawn
find the number of matches played o	during
the year.	
Solution:	
Let the total matches played de	iring
year = x	
won matches = 60% of x	
$= \frac{60}{(x)} = \frac{3}{3} x$ As no match was drawn hence	
As no match was drawn hence	
lost matches = A-3	
= 5x - 3x	
S = 2x	
as given that lost matches = 24	
$= \frac{2x}{2} = 24$	
x = 24x5 z 60	
2	
Hence 60 modones were played	24
totally during the year.	36° NOR
	F

Two number are in the radio 3:2. 97 two is added to the 1st & 6 is added to the second number they are in the radio 4:5. Find the numbers Solution: Let the two numbers which are in ratio 3:2 are x & y respectively. 3:2 we 3:2 we  $\frac{3}{2}$   $\frac{1}{2}$   $\frac{3}{2}$   $\frac{3}{2$ of two is added in 1st no. & 6 is added in 2rd number they are in ratio 4:5. => x+2: 6+y = 4:5  $\frac{\chi + \chi}{6 + y} = \frac{y}{5}$ 5(x+2) 4(6+4) 5x+10 = 24+44 5x = 24-10+44 5x= 4y+14 5x-4y=14- (iii) from eq (ii) 2x = 3y 2x - 3y = 0

	multiply equity with 5 & equip	
	with w	
	$10 \times -184 = 0$ $10 \times -84 = 28$	
	70 = -28 = 100	
	Put xn (ii) x(=3(-4)	
	2x = -12 $= 2(x = -6)$	
· · · · · · · · · · · · · · · · · · ·	hence first number is -6 %	
	second number is -4.	
	A concert hall 400 seats of which 325	
<i>(</i> 3)	are occupied Express allendance at	
Controlled the control and despitations of the Annual Control of the Control of t	Solution:	8125 325
	total seats =400	32
	occupied sends (altendance) = 325  50 attendace at copality perentage	10000
	325 X100 = 325 y 2 81.25 y.	
With the House		



C A crow tovels south skin, and then 3km west and then ykm morth. Finally travels 2km South-east How far is the crow From unitied point Solution: North East Mestaro ykm. 1+3=4km he is 4km far from South initial point.



b A card is drawn at random Irom a box containing 12 cards numbered 1,2,3,4,5, -..., 12. Find the i) Probability of drawing 8.

p(8) = Possibility of occuring 8 PASSIDISM um outcome. ii) probability of drawing an even num Even number b/w 1 to 12=2,6,6,8,10,12 Hence possible outcome = 6 maximum outcome= 12 so  $P(E) = \frac{6}{12} = \frac{1}{2}$ where E show's even number's Event iii) phobability of drawing a perfect square. perfect squares between 1 to 12 = 1, 4, 9 Hence possible outcome= 3 maximum outcome = 12 where s is the event of drawing perfect squares.

iv) drawing a negative number. Let "N" shows the event of negative numbers. as there is no negative number b/w 1 to 12. Hence favourable outcome = 0 total outcome = 12 P(N) = 0 = 0V) drawing 12 a number 1ess than 13. Let "F35 show the event of number less than 13. as there tes 1, 2, 3, ..., 12 numbers less than 13. Hence, favourable oudcome= 12 total outcome = 12  $P(F) = \frac{12}{12} = 1$ d) Hine students having ages 15, 15, 16, 16, 16, 17, 17, 18,19, calculate mean, median, mode & range of heir ages & also define these terms - -Mode: The most repeated value in a doda is called its mode.

	A description of the control of the second
15 occurs 2 times, 16 occurs	anni, der Europää von Holma einstellensen mingeg
3 times ; 17 occurs 2 times , 18	and a section of the contract of the section of the contract o
& 19 occurs one time.	de an annual control of the control
Hence mode = 16	a name and other transfer assessment of
Median:	
when a given data is in its	ing Continue (Internation Continue)
arranged form ether in increasing	ng
or docreasing order. The value	the second secon
in the middle is coulded its me	olicin.
15, 15, 16, 16, 16, 17, 17, 18, 19	and activism that the contract of a contract of the contract of
1 3 6 1 8 9	energia, dan pengapakan ang anakan bersar bersar
as the middle value is 16.	and the second second
Hence 16 is its median.	entricement where the manual district
Mean.	SECTION AND DESCRIPTIONS OF THE SECTION OF THE SECT
The average value of data is called mean	olara inales spirent in ferbre data di finizione al de
is called mean	and the angle of the first section in the section of the section o
Mean of given data is	3)
- 15+15+16+16+16+17+17+18+19	38
9	34
= 149 = 16.55	8
= 149 = 16.55 1 Range 9 945 the difference byw 19	9
The state of the s	160
marimum and minimum value 9/	149
of auta.	9450

maximum value = 19 minimum Value = 15 Range = 19-15 = 4. ) calculate the total area and perimeter the given shape 12cm 15cm This shap consists of two squares and triangle. Area of bigger squar= LxL = 12×12 = 144cm2 Area of triangle = ? Hypotaneous = 15cm, perpandicular=12cm base=? base =  $\sqrt{(f|yp)^2 - (per)^2}$ =  $\sqrt{(15cm)^2 - (12)^2}$  $= \sqrt{225 - 144}$ = 189 base = 9

	Avea of triangle = 1 bh	
	= ± (q x 12)	
	2 °Q ×6	
	= 3 4 cm <sup>2</sup>	
	Area of smaller square = L, x L2	
	L2 = 13 cm	
	Area of smaller square: 9x19	
0)44	=89cm <sup>2</sup>	
54 - 81	lotal area of Tigure = 81 + 54+	44
279	= 279cm²	
	Parimeter of bigger square 42	
	= 4(12) = 48  cm	
48	perimeter of smaller square=422	
48	= 4(9)= 36cm	
	perimeter of triangle: 6th+P	
And the second s	2 9+15+12 2 36cm	and the second s
and the state of t	Hence total perimeter = 36+48+36	-
	= 120cm	
		and the second second
		-
al a falcinario les coste en estarrollo applicamente manticipate de la co		-