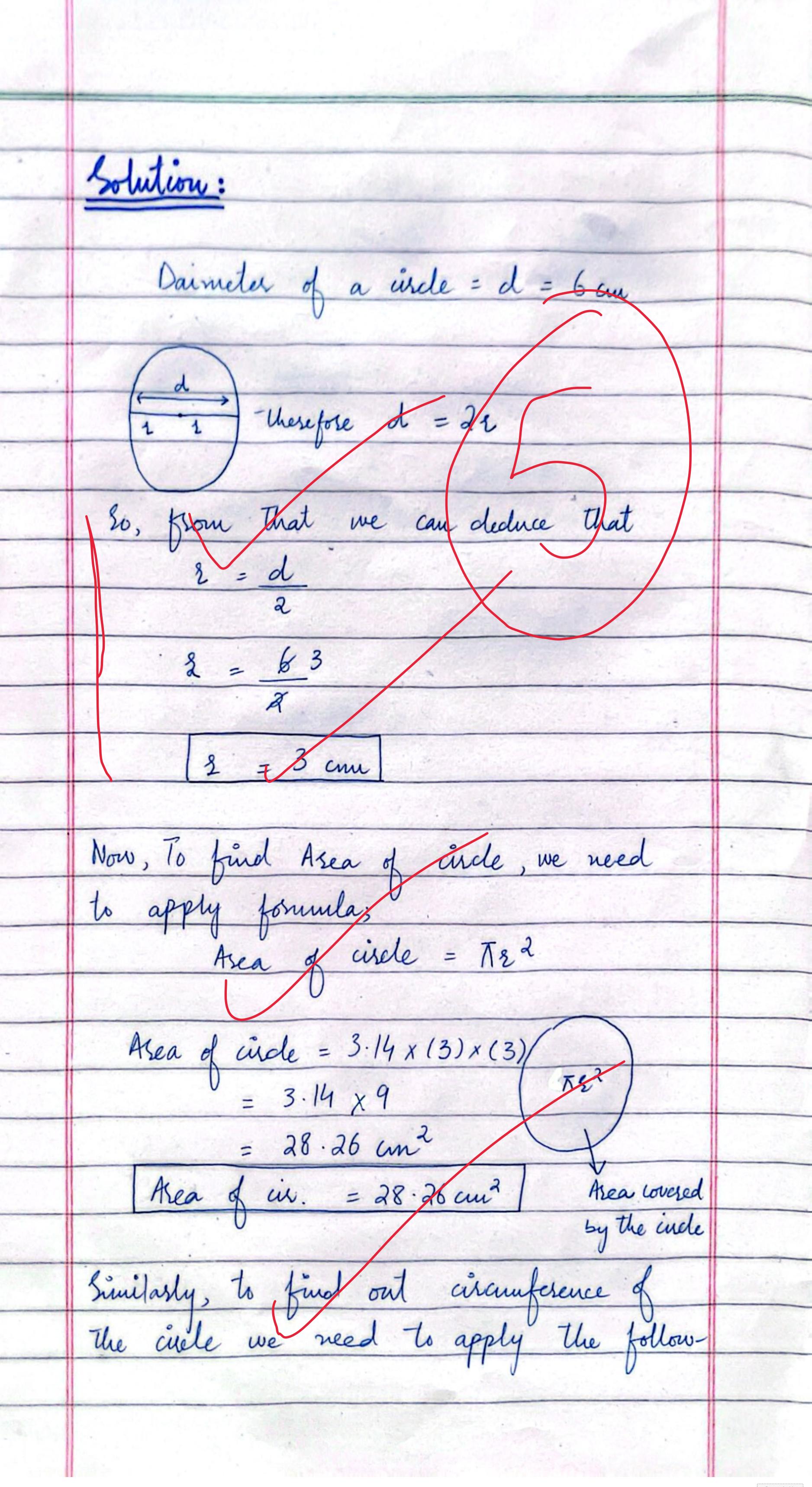


write it as follow; (Hundr.) (Tenth) (unit) Adding the value of H. Tand find the value of H. H + 12 = 15 H = 15 - 12So, now we have got the Three digit number whose sum is 15. Three digit mubber = 375 Aus. -(c)-Data Given: circle = 6 cm Daimeter of Ciscumference of a circle = 7 circle = ?

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ing formula;

Circumference of incle = 2752

 $= 2 \times 3.14 \times 3$ 

 $= 6 \times 3.14$ 

Circumference = 18.84 cm

Hence, Asea of Eircle in 28.26 cm² and arcunference of circle in 18.84 cm.

-(d)

(i). 13, 24, 46, 90, 178, \_

 $(6 \times 2) + 1 = 13$ 

12 x 2 = 24

24

(24x2)-2=46

46

(45 x 2) = 90

90

(89x2) = 178

178

177 x 2 =

misdued

# (ii) 5.6,9,14,21, 5+1=6 6+3=9 9+5=14 14+7=21 21 2119=30 The above series start from murber 5 and then keep adding odd numbers starting from I and then all the way up to number 9. Therefore The number number in the series is 30. Data Given: Small, Medium and large pizzas are ordered for 18 persons. 1 slice/person and, fatio of their slices = 2:3:4 and, all contains different number of slices.

Moleover, each slice is = 40 gm And,
Psice of smaller pizza = 320 supees. To find: Psice of total Pizza =?
Weight of total pizza =? Patris Their slices are as follows; To find out the number of slices of small pizza (5). (S). Blices = S(ratio) x Total persons. Sum satio number of stices.

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Similarly, M's sliegs = 3 x 1827 (Pizza) -> Medium = 6 number of stices Lastly, L'slices = 4 x 18 3 = 8 number of slices If the weight of each slices is 40 gm, then we can multiply 40 gm with total number of slices. Total. Numbers of slices = Schall + Medium
+ Large = 4+6+8=>[18 Therefore, weight of total pizza; Total weight = 40gm x 18.

Total weight = 720gm Aus. Surce, small pigsa has 4 slices, and the psice of one small pizza in 320 sufees.

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Therefore, we need to find price of each slice,

Price of each slice = 3x0 80

Price of each slice = 80 supees

Total elices of fizza are 18 therefore total price of fizza can be as follows;

Total psice = Psice of one slice x Total number of slice

= 80 x 18

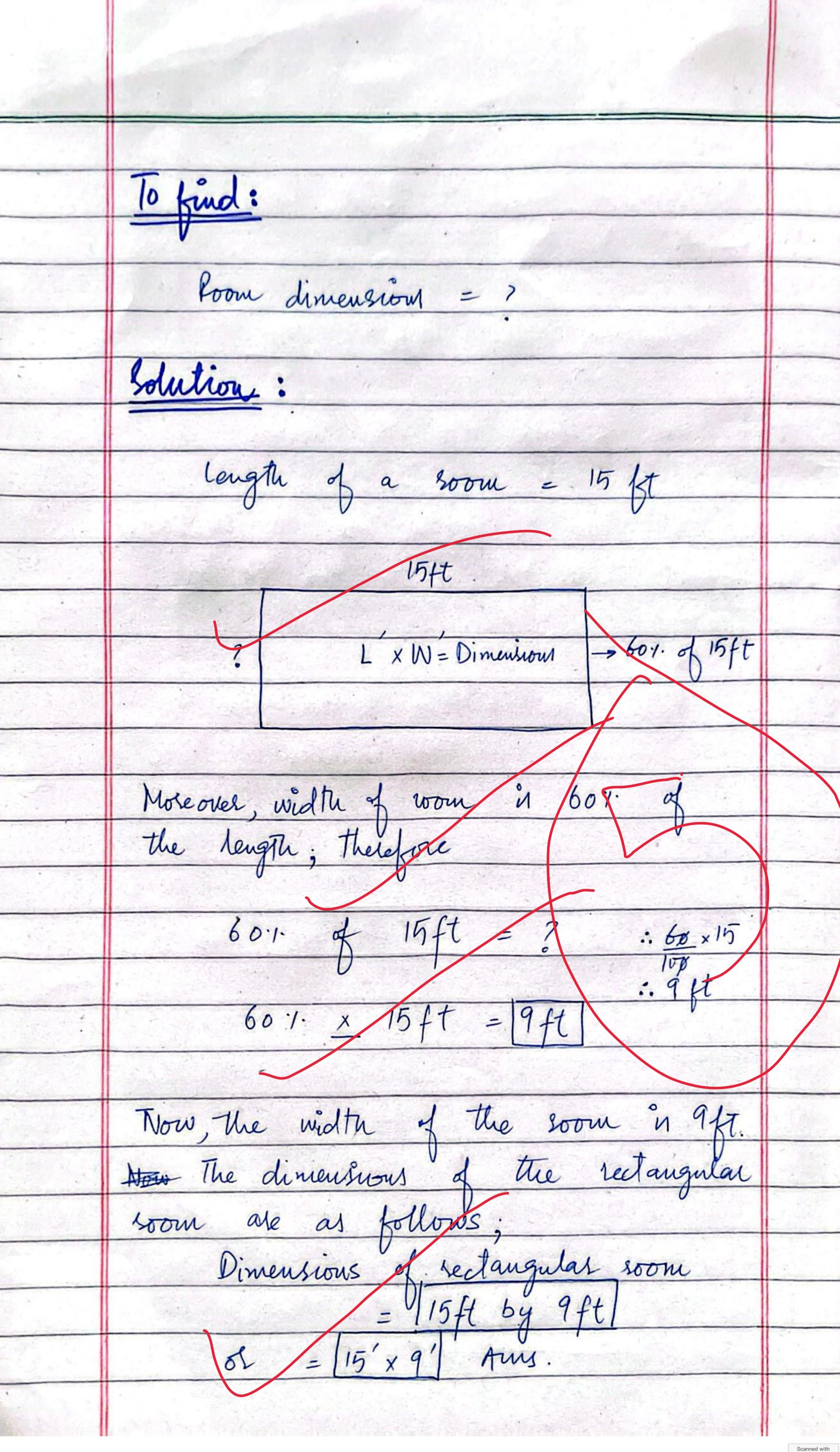
Total psice = 1440 supees Aus.

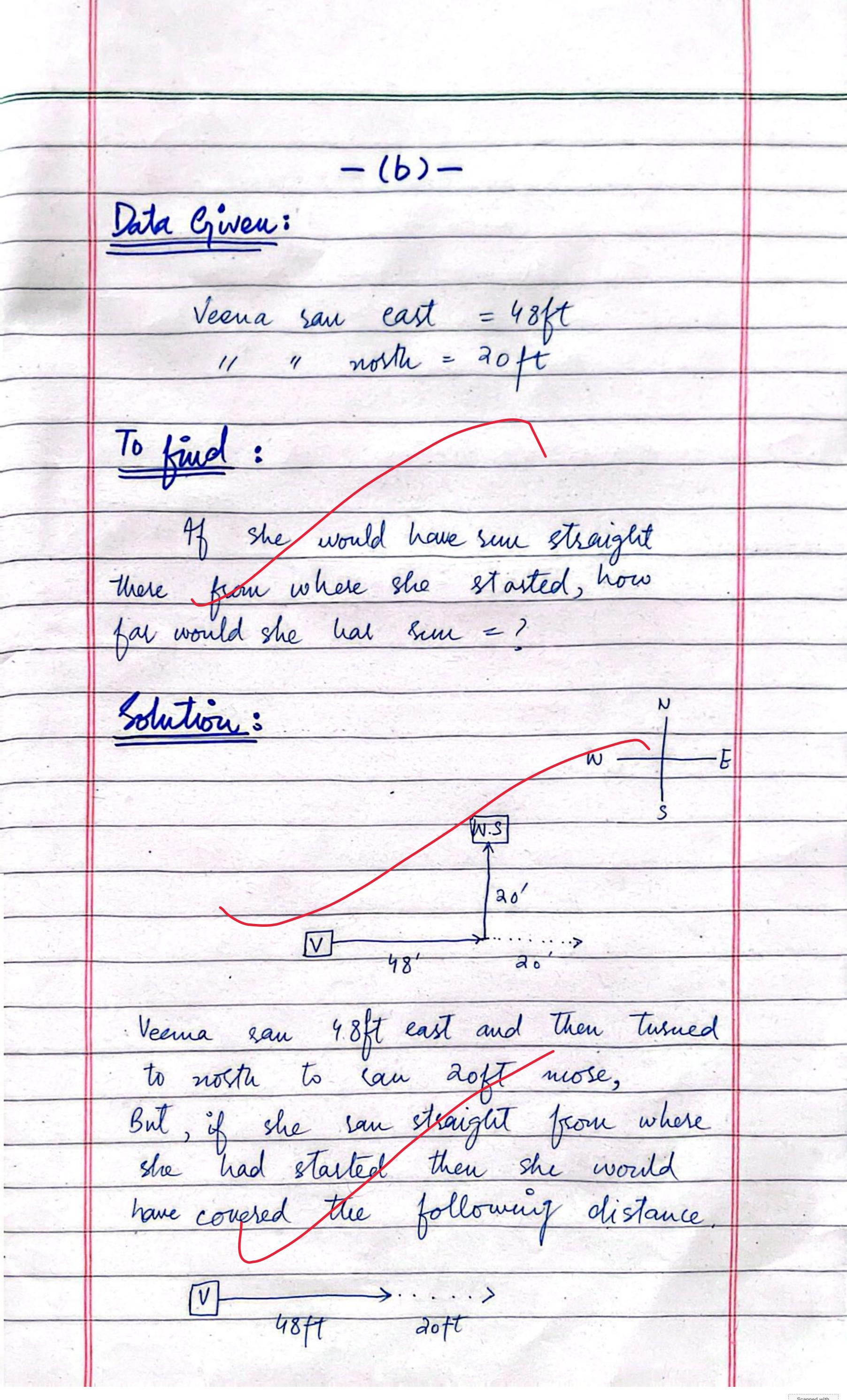
Auestion 210. 8

--(a)--

Data Given:

length of a classsoom = 15ft and, Width of sectangular soom in 60% of its length.





CamScanner

Therefore, of we add 48 ft and 20 ft because she would have been suring in the straight like, then she would have been 68ft away from the starting point. Distance from starting point = 48ft + Total distance = 68ft -(d)-Data Given: People who like Vegetable fizza = 37

11 11 Chichen 11 = 25

Rople who like neither = 3 Probability that a pesson likes a chichen pizza "of choosen sandowly = ?

### Bolution:

Total number / Sample size / population

= 37 (vegetable lovers) + 25

(Chithen lovers) + 3 (neither)

Total. = 65

So, 'y a pesson droosen randomly, we need to find a probability that he is a dichen loves.

Therefore, when we apply the formula
of probability, following are the
results:

P = P(E) event

Total possible
outcome

P (Person likes a chichen pizza) = People who
like chichen
Total number

= 25 65 13

P(Person tite Chichen 5 in the probability
Pi33a) 13 and Win in
The required

Auswer.

# - (c) Data Given: Average marks of 40 students = 52.15 Essos; Mashs of one student were taken to be 49, instead of 85. To find: Average mashs of class = ? solution: Avg. of 40 students = 52.15 So, we can write it as follows. Avg of 40 students = Sum of 40 students mashs Total number 52.15 = 5 cm of 39 + 49 (Esros) Sum 52.15 x 40 20.86 - 49 = Sum

Sum of 39 = 2037

So, after resecting the essor; replacing 49 with 85 we can get results 90 students = Sum of 39 + 85 2037 785 = 2122 Aug. of 40 stud. = 53.05 / Auswes. Hence, after correction the average of 40 students mashs became 53.05. -Asection - IB -(b)-Tsunami-Tsunann is a naturally occurring cherromenon which can cause huge devastation to human and trumal life. "Trumanni is a large block of water which starts in an orean

due to an earthquake and this
huge wave can attain an hieght
of upts 500 meters? Formation of Trunami - height of Tsunami theragy traver toater is pushed back easthquake Due to an easthquake, energy is transferred to a large block of water which is then cassied throughout The water body. When this large wave of water is close to the land, the water is pushed back which is helps in atlaining the height of upto 100 to 500 m depending upon the in intericty. Therefore, whenever the Tsunami is on the trongon, water from the beach is usually lesses. Note: Unlike nosmal names, tsunamin Tapenere word) is not caused by the attraction of moon.

8

Once, Tsunami seaches its full potential it can cause devastation to infrastructure, human lives regetation, animals and marinelife. Moreover, It is also accompanied by storms and heavy sainfall which further agravates the situation.

# Examples of Trumanie

Due to increasing change in weather

pattern Boungladesh, Australia, Newzealand

have repeatedly seen such phenomenon

to occur.

A recept report, shows that the frequency of Trumanic have increased drastically on Bangladesh from around 3 per years to 5 a more per years.

Similarly, latin America has also frequently seen the dwarfation of Trumanie.

#### - (b) -

## Envisonmental Pollution

Envisonment is everything that sussomeds and it can include land, water and

air pollution. Envisonmental pollution means the change in land, air quality and water properties over-time due to man-made activities such as land filling, vehicular emission and excessive use of fastilizers etc? Harmful Éffects of Envisonmental Pollution: Cand Pollation Activities like dumping of waste in open i e in vacant plots or landfill sites can cause land pollution which can give birth to numerous diseases such as dengue, and other land related discouses. (a)- land poblition can deterosiate the asthetics of a city of a country leading to international shame and decline in tourism

(b). It can also be a heaven for diseases which can be a threat to health security of the country. Air Pollution His Pollution is largely caused by vehicular emissions and Industrial burning of possil fuels. These emissions can include high levels of SOx and Nox which can be detrimental for luman health. (Formation of gases) Webiculat smog Effecti (a). Air pollution can be a leading cause of Acid rain which effects human and marine life as well as dry deposition can adro effect the buildings (b). It can cause ozone depletion, which can allow uv says to reach easter surface.

W. Swog coursed by His pollutants like Non and Sulphus oricle can course serious bleathing issue Water Pollution Water Pollution is caused by agricultural surelfs due to occessive use of festilizers and it can also be caused by Samitaly or , Industrial waste mis management. (Agriculture waste) 个个个个 (a). Water bosne diseaset like dengue (b). Dissuption in Massive ecosystem and onetall deteriotation of vailer

## Ways to Cust:

Burning of forsil facts is the heading cause of Air pollution, shifting to renewable and deaner energy is needed at the moment.

cb). limited use of festilizers:

Shift to organic festilizers (limited use) or

the use of hybrid seeds can help mitigate

the risk of water pollution.

(C) - Investment in solid waste management system

Effective solid waste managinemit can not only preserve the beauty of the city but also prevent us from many diseases.

- (d) -

## Wireless Communication

"Wireless communication also known as telecommunication which is done using EMRs such as infrared, radio waves etc."

# Be of Wireless Communication

### (a). Mobile Phone Cassiers

Mobile phone cassier companies noch on the simpler technique, where signal is transferred through EMR to tower and comesbach to device.

#### (b). TV Remote /A.C. Remote

Sumlasty, TV/A.C servote uses infrasced radiations to send and reference a signal to complete the communication

(c). GPS - Global Positioning systems

GPS is also an example of telecomynunication which yes a set/network of satellites.

The dates we transfer from one device to another is converted into form of sadiation under This technology

## Woshing of Satellite

Satellites are of two types: man-made/ ortificial (Sputnik) or natural satellite (moon)

The Astificial satellite à powered by

solar panels, which constantly revolve asomed the earth in incircular or elliptical manner. The satellites gets signal from the sender and gives signal buch to the recieves. > Solar Panels Moreover, there is also a communication center that can be setup to track the woshing of satstlite. (Satellite) [ (centes) & (The commication done through satellite is usually two way and it can help to determine Explain complex concepts in ings in a gostton of a simple terms. The grant of the g Use real-life examples. Include diagrams and flowcharts or direct and GIS to gather for competitive edge. Discuss practical applications of scientific concepts wallow about the hand, forests etc)

Show all steps and working for calculations. Use diagrams and graphs