eneral Institutional Science and Ability Paper 1. Give numbering to headings Name Dokhatzmite Woodsbormaragraphs. Write LMs medium sized paragraphs with headings. 3. Do not use table for comparison and Datecontrast questions 2023 4. Draw figures/diagram/flowchart where needed. 5. Start new question from fresh page. 6. Write unit of the answer in ability section. 7. Explain mathematical steps and the reasoning for better score. ano 87 Change colour scheme for references to give them more visibility. 9. Manage time well. Rashguld beyeasonable. 80 Percent dive more weightage to expressedly asked part/s of the question. Required original prize of shirt = x = ? Solution We know that: => 80-x = 2N (80-n)5 =x

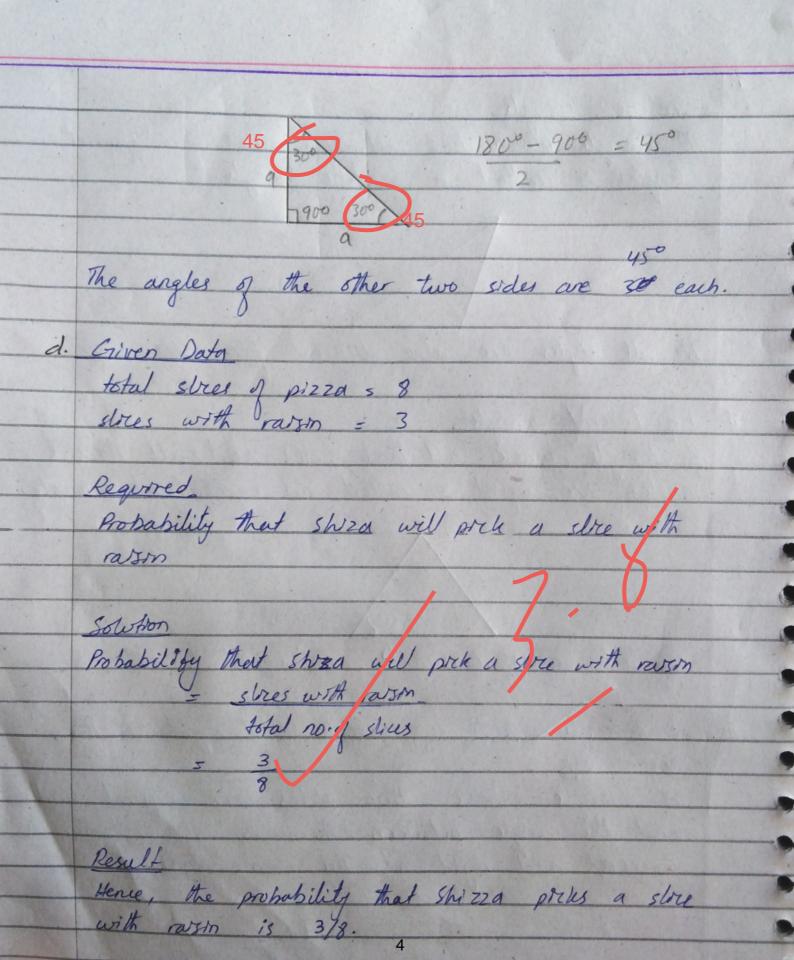
400 - Sn = 2 400 3 n+51 400 = 6× => x = 400 6 = 60 = 60 = 66 + 0.733 + 0.333 = 66.6667 Result Hence, original price = Rs. 66.6667 2 Rs- 67

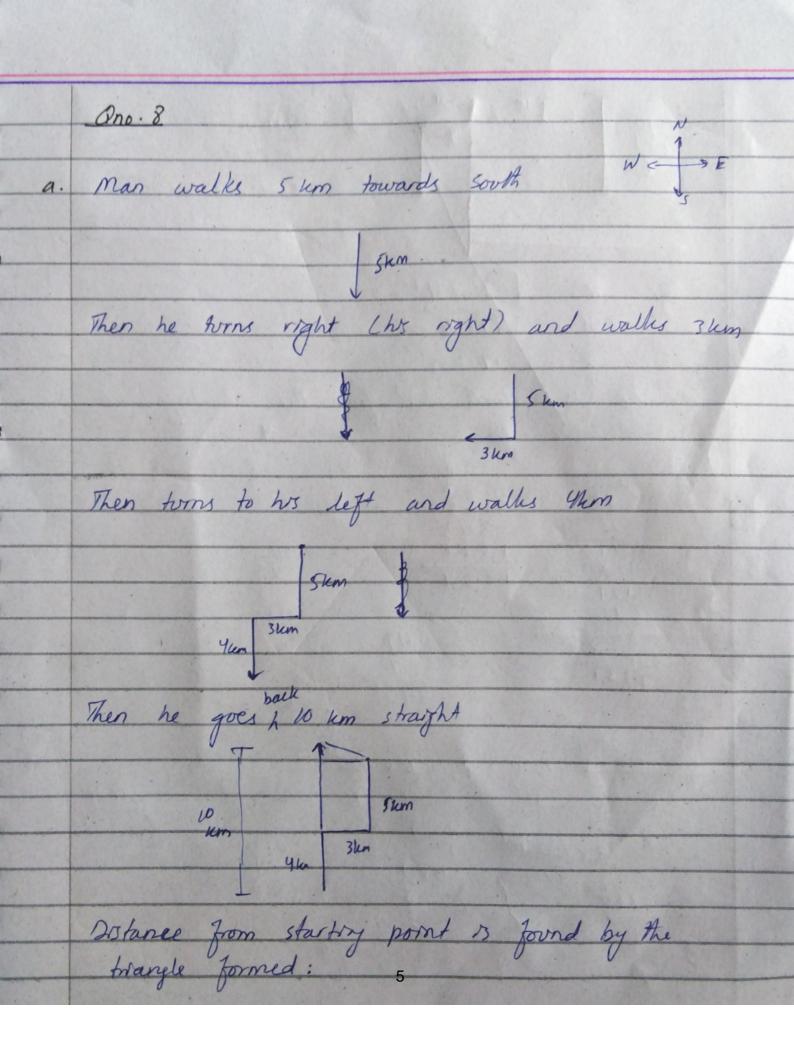
i. Scalene Triangle

A triangle which has all three order of different

lengths is called a scalene triangle. Its all angles are also different from each other. ii. Favilateral Triangle.

A triangle whose all three sides and all three angles are equal is called an equilateral triangle. Its all angles (internal) are equal to 60°. iii. A trrangle which is Isosceles and Right at the A triangle whose two order are equal and and the angle between them is goo is an isoceles, and right at the same time.





So, x5 12+32 5 119 n = NIO lun Conclusion in the North-West Direction. 6. To And Airthmatic mean of wheir of 1st five prime Solution

whe of 1st prime number 5 23 5 8

whe of 2nd prime number 5 33 5 3 x 3 x 3 cube of 3rd prime number = 53 = 5x5x5 cube of 4th prime number 5 73 = 7x7x7

whe of 5th prime number = (11)3 = 11 x 11x 11 Arthmetr mean = 200 8+27+ 125+ 343+133) = 1830 + 4 \$ 1000 + 900 + 30 + 4 5 5 5 5 5 s 200 + 160 + 6 + 0.8 = 366.8 Given Data construct 20 Wometer road m Regutred How long will It take 70 men to complete same length (20 km) of road Solution group of 50 men 5 40 days (road of 20 km) 7

So, I man 5 40 days (construction of 20 km road) 50 and 70 men 3 40 x 70 days 5 40 x 7 days 5 280 days 3 28 x 100 days = 28 x 2 days = 56 days so, it will take 56 days for 70 men to complete same length (20 hm) of road. d. Given Data Property left = Rs. 1750 000 Debt = Ps. 150 000 Registred_ Money left to be distributed between a son and a daughter of son reviewes double that of daughter. Solution Money left after paying debt = Rs. 150 000 - Rs. 150 000 = Rs, 1600 000 1750000 Now, share of son = 4 Now, share of daughter = x share of son = 2x 150000 1600000 2x +x = Rs. 1600 000 3× = 1600/000 × 3 1600 000 = 1500 000 500 000 + 99 999 = 500 000 + 33 333 + 0.3333 1 = 533 333.333

So, the daughter reviewes = n = Rs. 533.333.333

and the son reviewes = 2n = 2x 533.333.333

= Rs. 1086 686.668