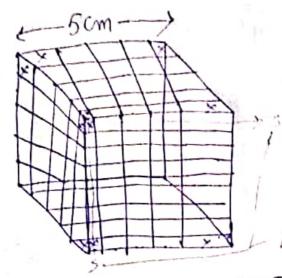
Non-Verbal Test of Reasoning 07/03/2022 (with Figure) Dice - (9mf Johic) (TCS) (Informage) Type-2 Jyho-1 Number Dice / Dotted Dice Colour Dice Rotation of Dice Solid Dice Hollow Dice Rotation of Dice-O Horizontal Rotation - Joh & bottom rurface 3 Front Vertical Rotation - Right & Left Side 3) Side Vertical Rotation - Front & Back side Problems on Solid Color Dice - Level-1 1) A Solid dice outer edge 5 cm all outer suf surface are red colour. It has been sectioned in such a way v can make the smaller solid dice of edge of 1 cm. - 1> How many dice can be I formed? It How many dice can be obtained having no face color? iii) How many dice can be obstained having I face color? vi) How many colored faces can be obtained?

VII) How many uncolored faces can be obtained?



$$n = No of sec + 1 = 4 + 1 = 5$$

- 1 no of dice = n3 = 53=125.
- $(n-2)^3 = (5-2)^3 = 27$ Inside Dice 2 NO of Dice -> NFC
- 3 No of dice IFC $6 \times 3^2 = 54$
- 4) No of dice 2FC $12(n-2) = 12 \times 3 = 36$
- 3 No of dice 3FC = 8.
- 6 Colored faces = 25 × 6 = 150
- 7) Total no of face = 125 ×6 = 750 Uncoloused face = 750 - 150 = 600

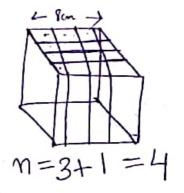
De d'solid dice of outer face 8 cm. all outers.

De l'are been colore of nave been the

such a way o can get the

sectioned in such a way o can get the

smaller solid dice of outer er edge 2 cm. 1) NO of dice ii) Inside dice/uncovered dice/ Dice howing no face color. iii) No of dice having 1 FC 2 FC 12(4-2) 3 FC vi) Colored faces vii) Jotal no of faces viii) uncolored faces



Od Solid dice of outer edge, 5cm. J. boch bottom are ned color Jeont & boch lon bottom are green color. Right & left wide are yellow green color. Right & left wide are yellow color. Sectioned ii) HFC iii) IFC ivy 2FC vy 3FC vi) colored faces vii) total no of faces viil) uncolored faces

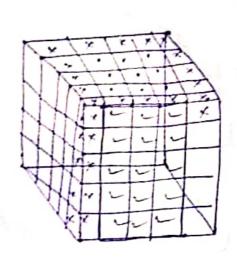
Of flow marry dice can. be obtained having 12+8=20 3 either red & yellow or red & green 3 neither having red & yellow nor red & green but color 12+12+8 = 32 (4) 'either only red or only yellow color (5) neither only red nor only yellow color but col. 6 oud & yellow but not green.

Text-3

The hollow dick of outer of edge 5 cm a thickness of 1cm, all outer was well a thickness of 1cm been certioned in that to have the hold of the hold of the theory of the section of 1 cm.

a thickness of 1cm been sectioned in red color It has been sectioned in the such a way euch that v can get the such a way euch of 1 cm thickness smaller solid dick of 1 cm thickness can be smaller solid dick of faces can be shaired?

988= 100 = 488



 $\frac{488}{14 \times 9} = 108$ $8 \times 4 \times 8 = 300$ $2 \times 4 \times 4 = 80$

J. A house in vourmounded by wall with Jamension 20m ×10 m. A now attached will a rope of 30m long & rope in attached 5m a rope of 30m long & rope in wine). Find the away brom the corner (length wine). Find the area of that cow can grate.

