MATH LEAGUE 15TH WEEK SOLUTIONS:

1- CALCULATE THE AREA OF THE BLUE PART A:

LET THE LENGTH OF THE SIDE OF THE SQUARE B

$$A = \frac{b^2}{2} = \frac{8^2}{2}$$

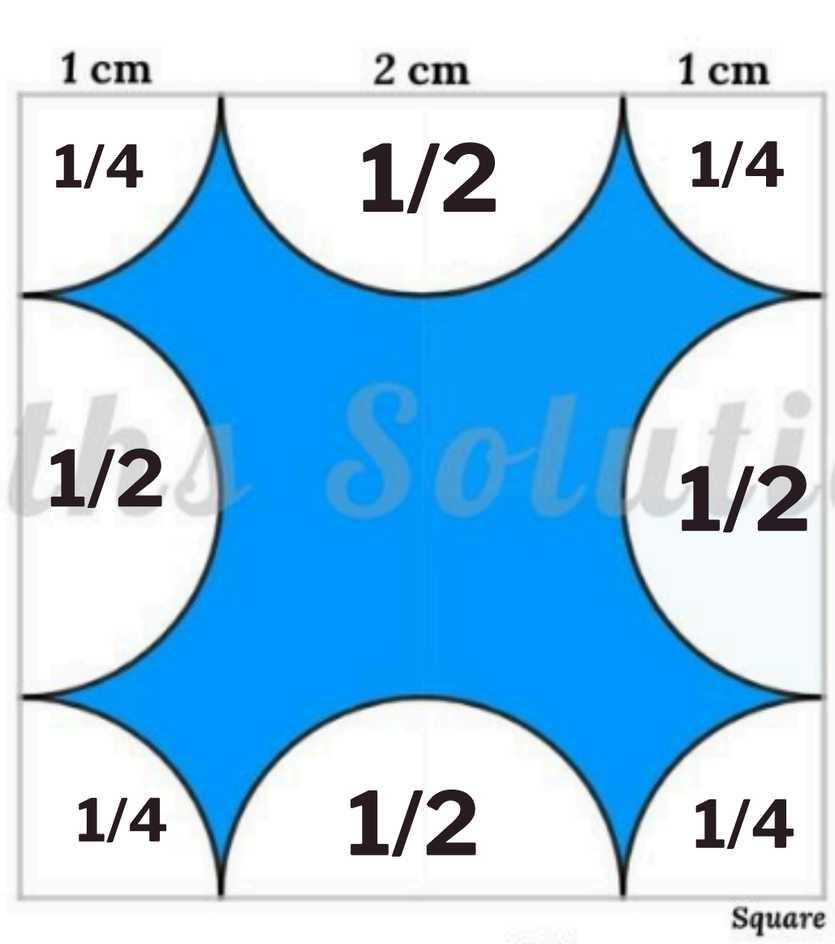
$$A = 32\,cm^2$$

CALCULATE THE COLOR SPACE S: -2

$$S = A - 3A_1$$

WHERE A IS THE AREA OF A SQUARE WITH A SIDE LENGTH OF 5 CM AND A_1 IS THE AREA OF A CIRCLE WITH A DIAMETER OF 2 CM BECAUSE:

CONSIDERING THE AREA OF THE CIRCLE AS A UNIT



1/4*4+1/2*4=3

2

$$S = 5\times5 - \pi r = 25 - 1\times3\times 3.14$$

$$S = 15.58\,cm^2$$

3- **CALCULATE THE AREA OF THE BLUE PART S:**

$$S=A-A_1/4$$

WHERE A IS THE AREA OF A SQUARE WITH A SIDE LENGTH OF 12 CM AND A_1 IS THE AREA OF A CIRCLE WITH A DIAMETER OF 12 CM.

$$S= 12*12 - \pi r^2 /4$$

$$S=144 - 4*3.14$$

$$S=144 - 12.56$$

$$S= 131.44 \text{ cm}^2$$

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