



MATH LEAGUE 10TH WEEK SOLUTIONS:

1-

CALCULATE THE AREA OF THE BLUE PART S:

$$S = A - A_1 - A_2$$

WHERE A IS THE AREA OF SQUARE WITH SIDE OF 12CM AND A_1 IS THE AREA OF AREA WITH A RADIUS OF 6CM AND A_2 IS THE AREA OF CIRCLE WITH A RADIUS OF 2CM

$$S = 12 \times 12 - 6 \times 6 \pi - 2 \times 2 \times \pi$$

$$S = 144 - 113.04 - 3.14 \times 4$$

$$\underline{S = 18.4 \text{ cm}^2}$$

-2

CALCULATE THE COLORRED SPACE S:

$$S = A + (A_1 - A)$$

WHERE A IS THE AREA OF A SEMI CIRCLE WITH A RADIUS OF 2CM AND A_1 IS THE AREA OF A RECTANGLE WITH A LENGTH OF 4CM AND WIDTH OF 2 CM

$$S = A_1$$

$$\underline{S = 4 \times 2 = 8 \text{ CM}^2}$$





3-



CALCULATE THE AREA OF THE LETTER Z:

LET THE AREA OF THE LETTER Z BE **A** AND THE AREA OF THE RECTANGLE WITH WIDTH OF **34CM** AND LENGTH OF **38CM** BE **S** AND THE ARE OF THE RIGHT TRIANGLE WITH SIDES OF **10CM** AND **28CM** BE **S₂**

$$A = S - 2S_2$$

$$A = 38 \times 34 - 2 \times 10 \times 28 / 2$$

$$A = 1292 - 280$$

$$A = 1012 \text{ cm}^2$$

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