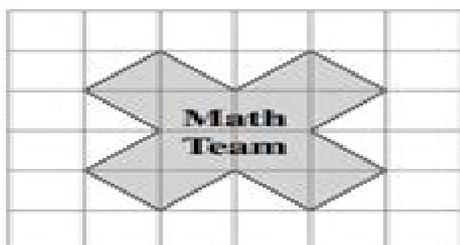


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1. The Math Team designed a logo shaped like a multiplication symbol, shown below on a grid of 1-inch squares. What is the area of the logo in square inches?



- (A) 10 (B) 12 (C) 13 (D) 14 (E) 15

Solution. We can apply Pick's Theorem: There are 5 lattice points in the interior and 12 lattice points on the boundary of the figure. As a result, the area is $5 + \frac{12}{2} - 1 = \boxed{\text{(A) } 10}$.

2. Consider these two operations:

$$\begin{aligned}a \spadesuit b &= a^2 - b^2 \\ a \star b &= (a - b)^2\end{aligned}$$

What is the value of $(5 \spadesuit 3) \star 6$?

- (A) -20 (B) 4 (C) 16 (D) 100 (E) 220

Solution. We have

$$\begin{aligned}(5 \spadesuit 3) \star 6 &= (5^2 - 3^2) \star 6 \\ &= 16 \star 6 \\ &= (16 - 6)^2 \\ &= \boxed{\text{(D) } 100}\end{aligned}$$

3. When three positive integers a , b , and c are multiplied together, their product is 100. Suppose $a < b < c$. In how many ways can the numbers be chosen?

- (A) 0 (B) 1 (C) 2 (D) 3 (E) 4

Solution. The positive divisors of 100 are

$$1, 2, 4, 5, 10, 20, 25, 50, 100.$$

It is clear that $10 \leq c \leq 50$, so we apply casework to c :

If $c = 10$, then $(a, b, c) = (2, 5, 10)$. If $c = 20$, then $(a, b, c) = (1, 5, 20)$. If $c = 25$, then $(a, b, c) = (1, 4, 25)$. If $c = 50$, then $(a, b, c) = (1, 2, 50)$. Together, the numbers a , b , and c can be chosen in $\boxed{\text{(E) } 4}$ ways.

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