

Contest: Symbols in Interesting Questions (SYMBOLIQ)

April 1, 2024 – June 19, 2024 11:59pm ET

Participants: 9

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V. Problem Solving

Find where the missing line needs to be in order to complete the pattern for item 13 (which is highlighted in yellow)

		Ex	13
Y	3		
Y	2		
Y	1		
		1	2
		X	X

Write coordinates going from left to right or top (corner) to bottom (corner). The missing line could be vertical, horizontal, or diagonal (each diagonal line is to be viewed as one continuous line connecting one corner of the bolded square to the other corner).

For example, imagine the following scenarios of missing lines for the smallest square in the example (Ex):

- If only the bottom horizontal line is missing, complete it with: Left (X, Y) = (1, 2.5) and Right (X, Y) = (1.5, 2.5)
- If only the right vertical line is missing, complete it with: Top (X, Y) = (1.5, 3) and Bottom (X, Y) = (1.5, 2.5)
- If only the \ diagonal (top left to bottom right) is missing, complete it with: Top corner (X, Y) = (1, 3) and Bottom corner (X, Y) = (1.5, 2.5)
- If only the / diagonal (top right to bottom left) is missing, complete it with: Top corner (X, Y) = (1.5, 3) and Bottom corner (X, Y) = (1, 2.5)

Please review the above examples before attempting item 13 to understand the correct format for answering it.

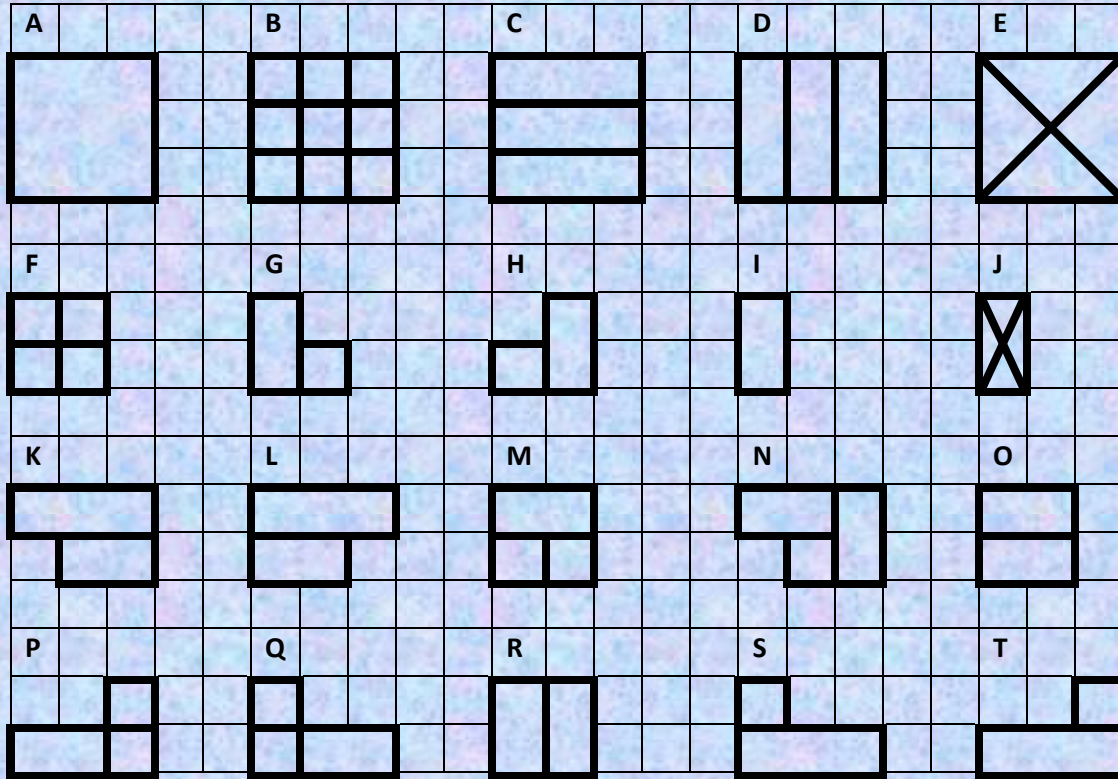
13. Write the coordinates for item 13 going from left to right or top (corner) to bottom (corner) in the correct format:

Left or Top (corner) (X, Y) = (?, ?) **and** Right or Bottom (corner) (X, Y) = (?, ?)

14. For this item, there are 5 of 6 external sides of a solid object shown; find the sixth external side from the multiple-choice options.



Write the letter that corresponds to the sixth external side for item 14. Multiple-choice options (A-T):



15. For this item, a circle has no sides. Not including this item, the number of correct answers minus the number of sides of a circle is: ?

Final Scoreboard (June 19, 2024)

Ranking	Name	Country	1 st Attempt	2 nd Attempt	Mean Score	Prize
Winner	Lukáš Puškáš	Slovakia	15	N/A	15	Free test submission and free society membership until July 31, 2024.
	Jim Lorrimore	England				
	Susumu Ota	Japan				
	Harrison Joseph Pitchon-Schroder	USA				
	Nobuo Yamashita	Japan				
2nd Place	Hidden	Hidden	14	N/A	14	Free test submission until July 15, 2024.
3rd Place	Motoki Semura	Japan	13	N/A	13	½-off test submission until June 30, 2024.
	Guoxiong Li	China				
4th Place	Göran Åhlander	Sweden	11	N/A	11	Secret Prize: given to all participants