Yocket Prep

FREE DOWNLOADABLE PRACTICE SET

dMAT Latin Squares

20 practice questions with answers

20	questions with grids	**5 x 5**	grids using the letters A to E	**75 sec**	suggested time per question

Latin Squares is one of the three subtests in the dMAT Core Module. Each question shows a 5 x 5 grid that is partly filled with the letters A to E, and the task is to find the letter that belongs in the cell marked with a question mark. The questions start with grids that can be solved in one look and build up to grids that need a chain of steps.

Prepared by the Yocket Prep team

How to use this practice set

Work through the questions in order, since the difficulty builds up step by step. Cover the answers section at the back, try each question on your own, and only then check the answer and the reasoning. Aim for about 75 seconds per question once the easy ones feel comfortable.

Level	Questions	What to expect	How to approach
Easy	1 to 10	The row and column of the marked cell already show four different letters	Read the row and column together and find the missing letter.
Medium	11 to 15	Two letters stay possible, so one other cell has to be worked out first	Fill a neighbouring cell first, then return to the marked cell.
Hard	16 to 20	A chain of two cells has to be worked out before the marked cell	Check every step, since each cell depends on the one before it.

The one rule behind every grid

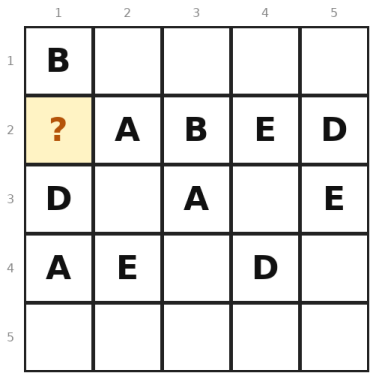
Each letter from A to E appears exactly once in every row and exactly once in every column. Diagonals do not matter. This single rule is enough to solve every question in this set.

A simple method that works at every level

1	**Read the cross**	Look at the row and the column that pass through the question mark. If they already show four different letters between them, the fifth letter is the answer.
2	**Find a forced neighbour**	If two letters are still possible, look for a nearby cell whose row and column leave only one letter. Fill that cell in your mind, which usually settles the marked cell.
3	**Repeat for harder grids**	Some grids need two such steps, one after the other. Follow the chain and check each step before moving on.
4	**Confirm the answer**	Check that the letter you chose does not already appear in the marked cell's row or column.

Rows are counted from the top and columns from the left, and the numbers on the edge of each grid show the count. Every question has four options, a to d, and only one is correct.

Practice questions



	1	2	3	4	5
1	B				
2	?	A	B	E	D
3	D		A		E
4	A	E		D	
5					

Question 1

Easy

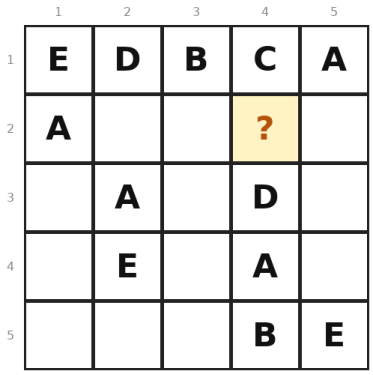
Which letter belongs in the cell marked with a question mark?

a. A

b. C

c. D

d. B



	1	2	3	4	5
1	E	D	B	C	A
2	A			?	
3		A		D	
4		E		A	
5				B	E

Question 2

Easy

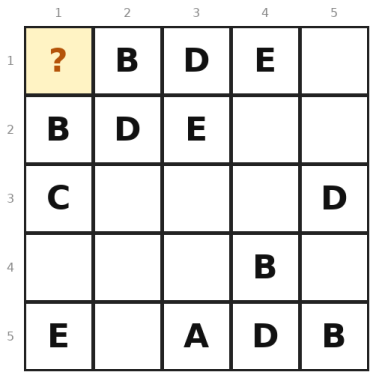
Which letter belongs in the cell marked with a question mark?

a. A

b. D

c. E

d. B



	1	2	3	4	5
1	?	B	D	E	
2	B	D	E		
3	C				D
4				B	
5	E		A	D	B

Question 3

Easy

Which letter belongs in the cell marked with a question mark?

a. A

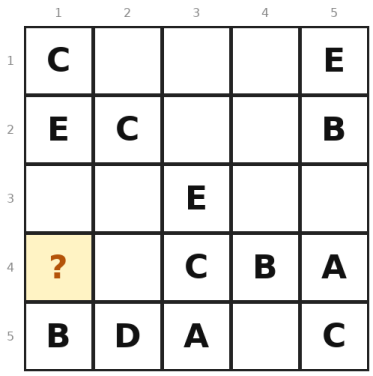
b. C

c. E

d. D

Question 4

Easy



	1	2	3	4	5
1	C				E
2	E	C			B
3			E		
4	?		C	B	A
5	B	D	A		C

Which letter belongs in the cell marked with a question mark?

a. A

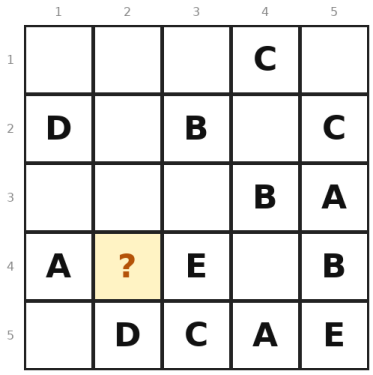
b. D

c. C

d. E

Question 5

Easy



	1	2	3	4	5
1				C	
2	D		B		C
3				B	A
4	A	?	E		B
5		D	C	A	E

Which letter belongs in the cell marked with a question mark?

a. D

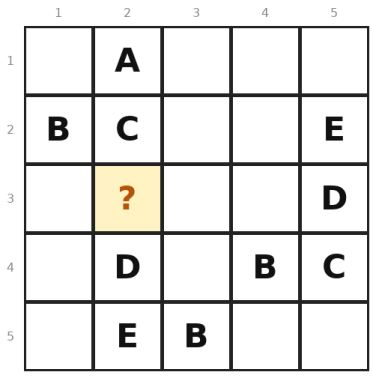
b. B

c. E

d. C

Question 6

Easy



	1	2	3	4	5
1		A			
2	B	C			E
3		?			D
4		D		B	C
5		E	B		

Which letter belongs in the cell marked with a question mark?

a. E

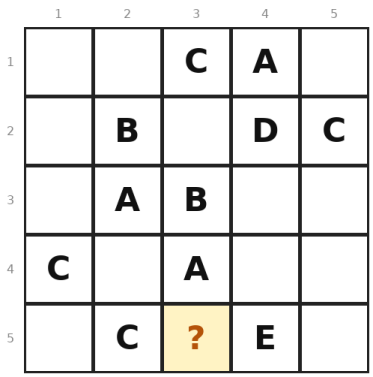
b. D

c. B

d. C

Question 7

Easy



	1	2	3	4	5
1			C	A	
2		B		D	C
3		A	B		
4	C		A		
5		C	?	E	

Which letter belongs in the cell marked with a question mark?

a. D

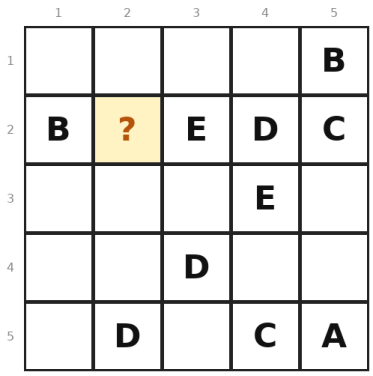
b. E

c. C

d. A

Question 8

Easy



	1	2	3	4	5
1					B
2	B	?	E	D	C
3				E	
4			D		
5		D		C	A

Which letter belongs in the cell marked with a question mark?

a. A

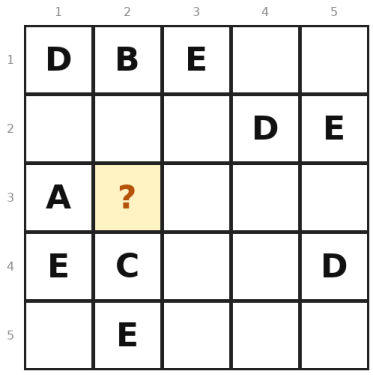
b. B

c. D

d. E

Question 9

Easy



	1	2	3	4	5
1	D	B	E		
2				D	E
3	A	?			
4	E	C			D
5		E			

Which letter belongs in the cell marked with a question mark?

a. B

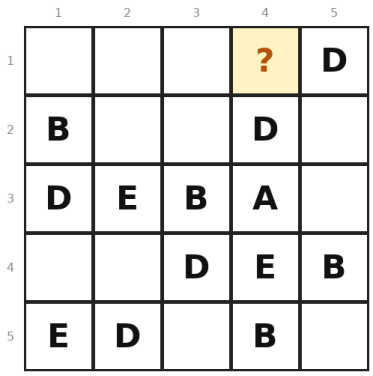
b. D

c. A

d. C

Question 10

Easy



	1	2	3	4	5
1				?	D
2	B			D	
3	D	E	B	A	
4			D	E	B
5	E	D		B	

Which letter belongs in the cell marked with a question mark?

a. E

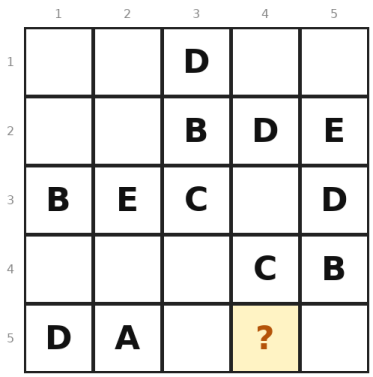
b. D

c. B

d. C

Question 11

Medium



	1	2	3	4	5
1			D		
2			B	D	E
3	B	E	C		D
4				C	B
5	D	A		?	

Which letter belongs in the cell marked with a question mark?

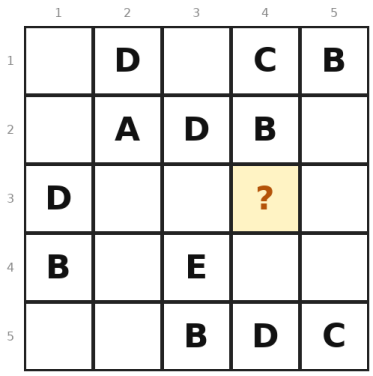
a. B

b. D

c. C

d. E

Question 12 Medium



	1	2	3	4	5
1		D		C	B
2		A	D	B	
3	D			?	
4	B		E		
5			B	D	C

Which letter belongs in the cell marked with a question mark?

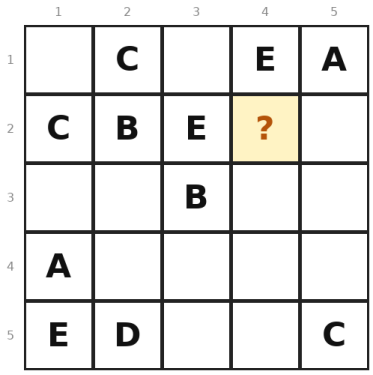
a. A

b. E

c. D

d. B

Question 13 Medium



	1	2	3	4	5
1		C		E	A
2	C	B	E	?	
3			B		
4	A				
5	E	D			C

Which letter belongs in the cell marked with a question mark?

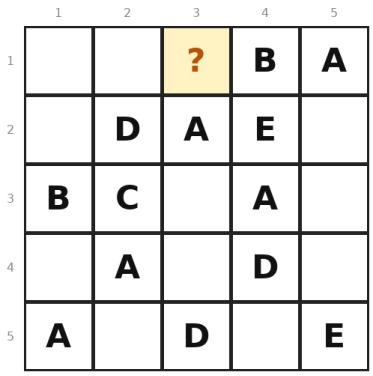
a. B

b. E

c. D

d. A

Question 14 Medium



	1	2	3	4	5
1			?	B	A
2		D	A	E	
3	B	C		A	
4		A		D	
5	A		D		E

Which letter belongs in the cell marked with a question mark?

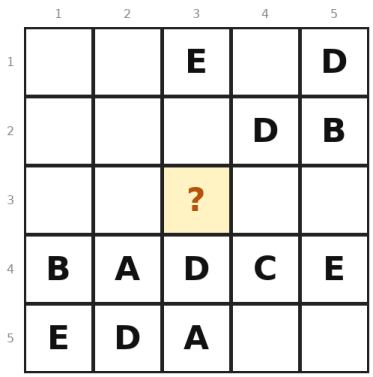
a. D

b. A

c. E

d. C

Question 15 Medium



	1	2	3	4	5
1			E		D
2				D	B
3			?		
4	B	A	D	C	E
5	E	D	A		

Which letter belongs in the cell marked with a question mark?

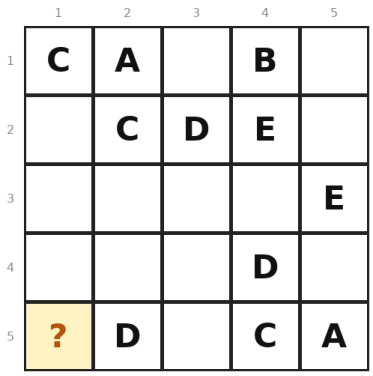
a. E

b. D

c. B

d. C

Question 16 Hard



	1	2	3	4	5
1	C	A		B	
2		C	D	E	
3					E
4				D	
5	?	D		C	A

Which letter belongs in the cell marked with a question mark?

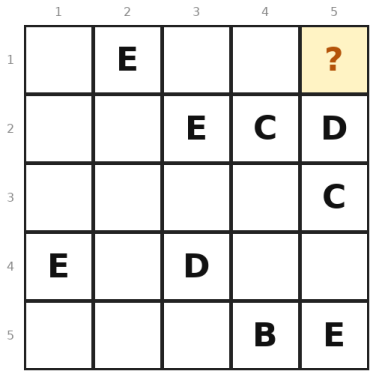
a. A

b. D

c. E

d. B

Question 17 Hard



	1	2	3	4	5
1		E			?
2			E	C	D
3					C
4	E		D		
5				B	E

Which letter belongs in the cell marked with a question mark?

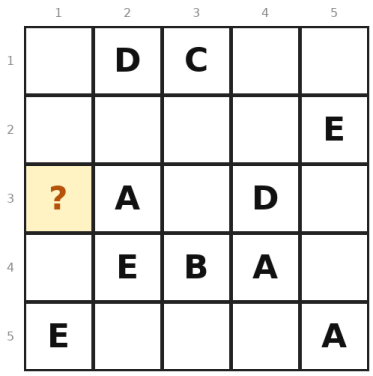
a. B

b. C

c. A

d. D

Question 18 Hard



	1	2	3	4	5
1		D	C		
2					E
3	?	A		D	
4		E	B	A	
5	E				A

Which letter belongs in the cell marked with a question mark?

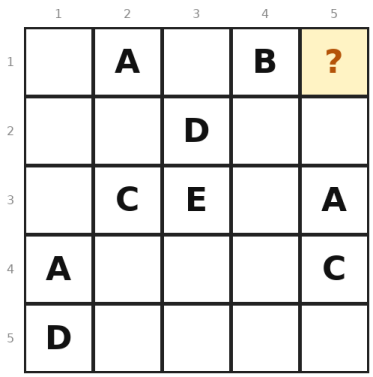
a. A

b. B

c. E

d. C

Question 19 Hard



	1	2	3	4	5
1		A		B	?
2			D		
3		C	E		A
4	A				C
5	D				

Which letter belongs in the cell marked with a question mark?

a. D

b. E

c. C

d. A

Question 20

Hard

	1	2	3	4	5
1		E	A		
2	C			D	
3	?	C	D	B	
4	D			A	
5		D		E	

Which letter belongs in the cell marked with a question mark?

a. A

b. B

c. C

d. E

Answer key

Question 1 **b**	Question 2 **c**	Question 3 **a**	Question 4 **b**
Question 5 **d**	Question 6 **c**	Question 7 **a**	Question 8 **a**
Question 9 **b**	Question 10 **d**	Question 11 **a**	Question 12 **b**
Question 13 **d**	Question 14 **d**	Question 15 **c**	Question 16 **c**
Question 17 **c**	Question 18 **b**	Question 19 **a**	Question 20 **d**

If a question went wrong, redraw the row and column of the marked cell on paper and list the letters already present. Most mistakes come from skipping a letter that was already in the column.

Answers and explanations

Question 1 Easy **Answer: b (letter C)**

Row 2 already contains A, B, D and E, so the marked cell at Row 2, Column 1 must be C.

Question 2 Easy **Answer: c (letter E)**

Column 4 already contains A, B, C and D, so the marked cell at Row 2, Column 4 must be E.

Question 3 Easy **Answer: a (letter A)**

For the marked cell at Row 1, Column 1, Row 1 already has B, D and E and Column 1 already has B, C and E. Together these cover B, C, D and E, so only A can go here.

Question 4 Easy **Answer: b (letter D)**

For the marked cell at Row 4, Column 1, Row 4 already has A, B and C and Column 1 already has B, C and E. Together these cover A, B, C and E, so only D can go here.

Question 5 Easy **Answer: d (letter C)**

For the marked cell at Row 4, Column 2, Row 4 already has A, B and E and Column 2 already has D. Together these cover A, B, D and E, so only C can go here.

Question 6 Easy **Answer: c (letter B)**

Column 2 already contains A, C, D and E, so the marked cell at Row 3, Column 2 must be B.

Question 7 Easy **Answer: a (letter D)**

For the marked cell at Row 5, Column 3, Row 5 already has C and E and Column 3 already has A, B and C. Together these cover A, B, C and E, so only D can go here.

Question 8 Easy **Answer: a (letter A)**

Row 2 already contains B, C, D and E, so the marked cell at Row 2, Column 2 must be A.

Question 9 Easy **Answer: b (letter D)**

For the marked cell at Row 3, Column 2, Row 3 already has A and Column 2 already has B, C and E. Together these cover A, B, C and E, so only D can go here.

Question 10 Easy **Answer: d (letter C)**

Column 4 already contains A, B, D and E, so the marked cell at Row 1, Column 4 must be C.

Question 11 Medium **Answer: a (letter B)**

Start with an easier cell. For the cell at Row 5, Column 3, Row 5 already has A and D and Column 3 already has B, C and D. Together these cover A, B, C and D, so only E can go here. With that cell filled, for the marked cell at Row 5, Column 4, Row 5 already has A, D and E and Column 4 already has C and D. Together these cover A, C, D and E, so only B can go here.

Question 12 Medium Answer: b (letter E)

Start with an easier cell. For the cell at Row 4, Column 4, Row 4 already has B and E and Column 4 already has B, C and D. Together these cover B, C, D and E, so only A can go here. With that cell filled, Column 4 already contains A, B, C and D, so the marked cell at Row 3, Column 4 must be E.

Question 13 Medium Answer: d (letter A)

Start with an easier cell. For the cell at Row 2, Column 5, Row 2 already has B, C and E and Column 5 already has A and C. Together these cover A, B, C and E, so only D can go here. With that cell filled, Row 2 already contains B, C, D and E, so the marked cell at Row 2, Column 4 must be A.

Question 14 Medium Answer: d (letter C)

Start with an easier cell. For the cell at Row 1, Column 2, Row 1 already has A and B and Column 2 already has A, C and D. Together these cover A, B, C and D, so only E can go here. With that cell filled, for the marked cell at Row 1, Column 3, Row 1 already has A, B and E and Column 3 already has A and D. Together these cover A, B, D and E, so only C can go here.

Question 15 Medium Answer: c (letter B)

Start with an easier cell. For the cell at Row 2, Column 3, Row 2 already has B and D and Column 3 already has A, D and E. Together these cover A, B, D and E, so only C can go here. With that cell filled, Column 3 already contains A, C, D and E, so the marked cell at Row 3, Column 3 must be B.

Question 16 Hard Answer: c (letter E)

Start with an easier cell. For the cell at Row 1, Column 3, Row 1 already has A, B and C and Column 3 already has D. Together these cover A, B, C and D, so only E can go here. Next, for the cell at Row 5, Column 3, Row 5 already has A, C and D and Column 3 already has D and E. Together these cover A, C, D and E, so only B can go here. With those cells filled, Row 5 already contains A, B, C and D, so the marked cell at Row 5, Column 1 must be E.

Question 17 Hard Answer: c (letter A)

Start with an easier cell. For the cell at Row 4, Column 4, Row 4 already has D and E and Column 4 already has B and C. Together these cover B, C, D and E, so only A can go here. Next, for the cell at Row 4, Column 5, Row 4 already has A, D and E and Column 5 already has C, D and E. Together these cover A, C, D and E, so only B can go here. With those cells filled, Column 5 already contains B, C, D and E, so the marked cell at Row 1, Column 5 must be A.

Question 18 Hard Answer: b (letter B)

Start with an easier cell. For the cell at Row 1, Column 5, Row 1 already has C and D and Column 5 already has A and E. Together these cover A, C, D and E, so only B can go here. Next, for the cell at Row 3, Column 5, Row 3 already has A and D and Column 5 already has A, B and E. Together these cover A, B, D and E, so only C can go here. With those cells filled, for the marked cell at Row 3, Column 1, Row 3 already has A, C and D and Column 1 already has E. Together these cover A, C, D and E, so only B can go here.

Question 19 Hard Answer: a (letter D)

Start with an easier cell. For the cell at Row 1, Column 3, Row 1 already has A and B and Column 3 already has D and E. Together these cover A, B, D and E, so only C can go here. Next, for the cell at Row 1, Column 1, Row 1 already has A, B and C and Column 1 already has A and D. Together these cover A, B, C and D, so only E can go here. With those cells filled, Row 1 already contains A, B, C and E, so the marked cell at Row 1, Column 5 must be D.

Question 20 Hard Answer: d (letter E)

Start with an easier cell. For the cell at Row 1, Column 1, Row 1 already has A and E and Column 1 already has C and D. Together these cover A, C, D and E, so only B can go here. Next, for the cell at Row 5, Column 1, Row 5 already has D and E and Column 1 already has B, C and D. Together these cover B, C, D and E, so only A can go here. With those cells filled, Column 1 already contains A, B, C and D, so the marked cell at Row 3, Column 1 must be E.

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