

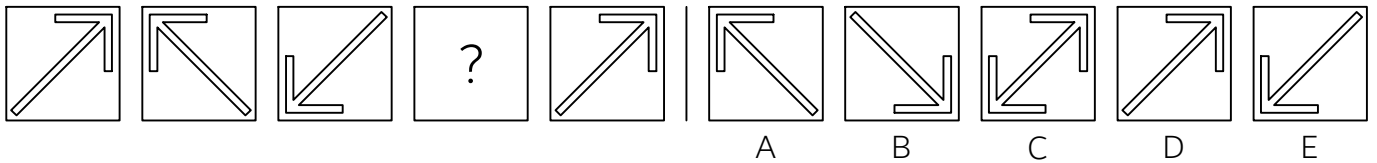
# .CG Maths.

## Non-Verbal Reasoning Practice Paper 1

### Section 1: Series

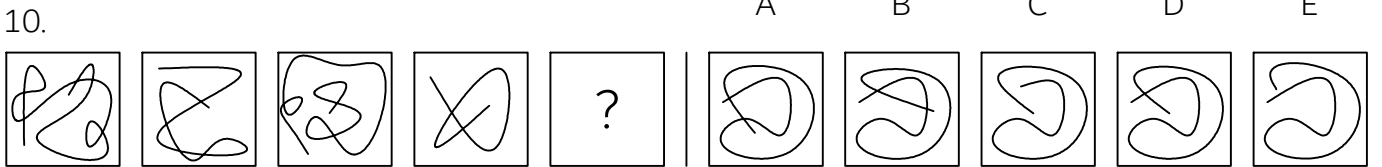
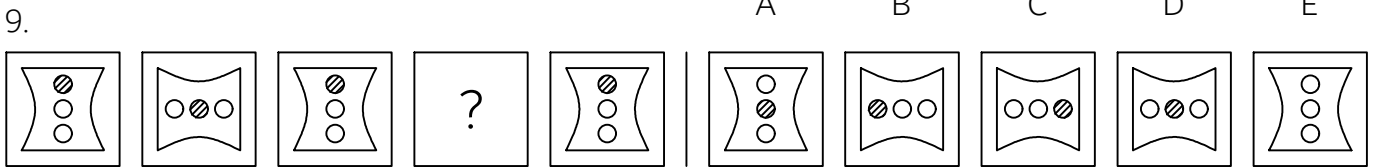
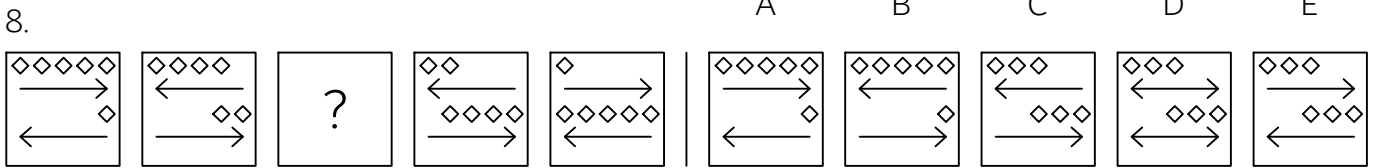
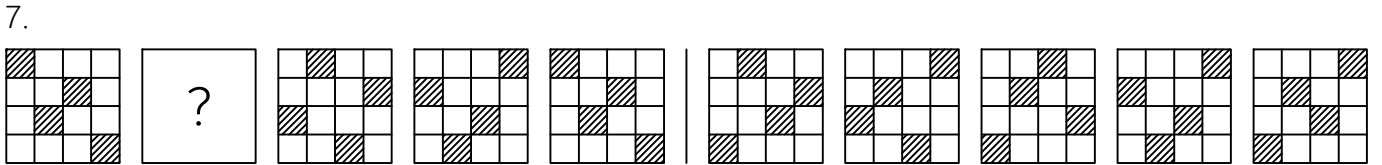
Which one of the following options best completes the series of diagrams?

Example:



The answer is B as the arrow rotates 90 degrees anti-clockwise each time.

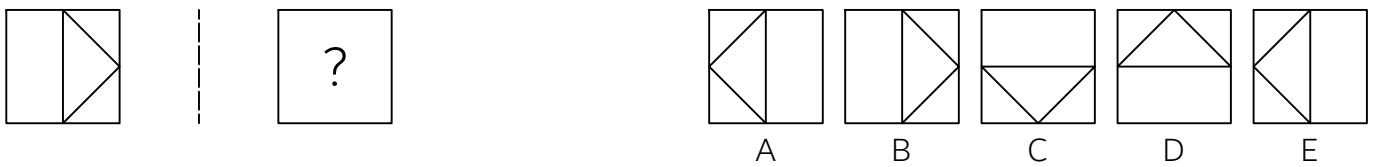
- 
- 
- 
- 
- 
-



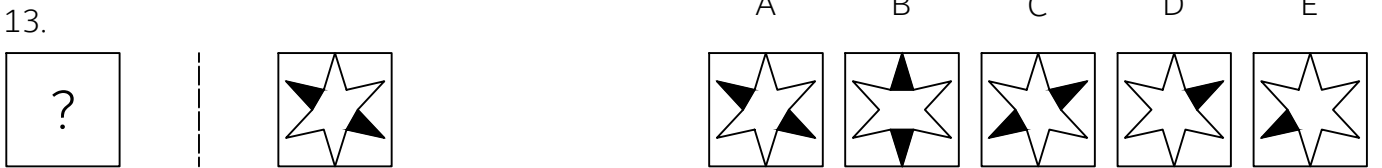
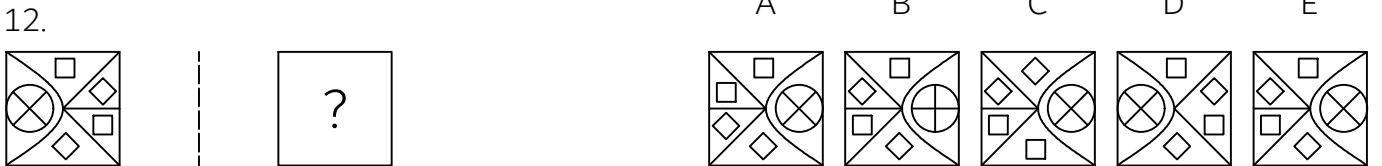
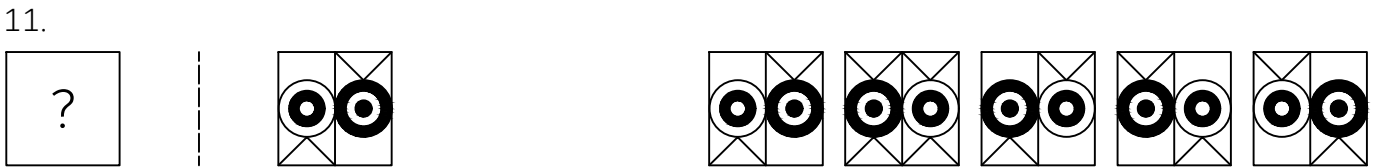
## Section 2: Reflection

Which option on the right is a reflection of the pattern in the dotted line?

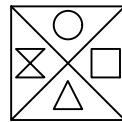
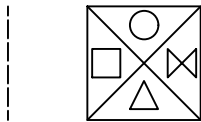
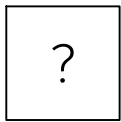
Example:



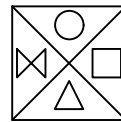
The answer is A.



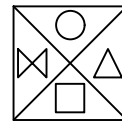
15.



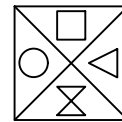
A



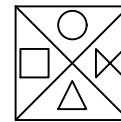
B



C



D

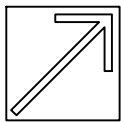


E

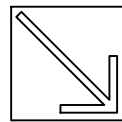
### Section 3: Rotation

Which option on the right is a rotation in the direction and amount indicated?

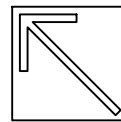
Example:



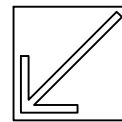
90 Degrees  
Clockwise



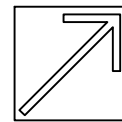
A



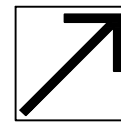
B



C



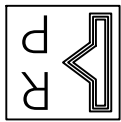
D



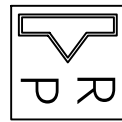
E

The answer is A.

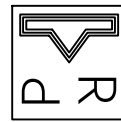
16.



90 Degrees  
Anti-Clockwise



A



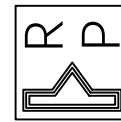
B



C



D

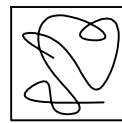


E

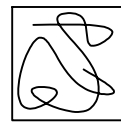
17.



180 Degrees  
Clockwise



A



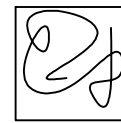
B



C



D

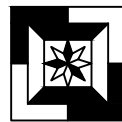


E

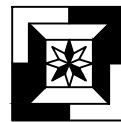
18.



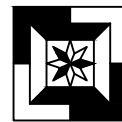
90 Degrees  
Clockwise



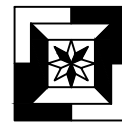
A



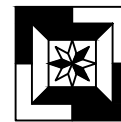
B



C

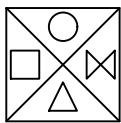


D

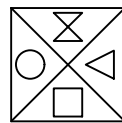


E

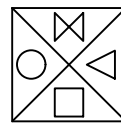
19.



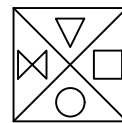
90 Degrees  
Anti-Clockwise



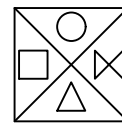
A



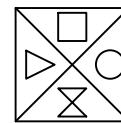
B



C

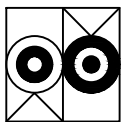


D

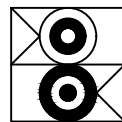


E

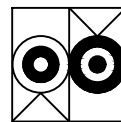
20.



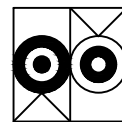
180 Degrees  
Clockwise



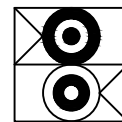
A



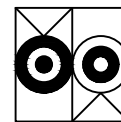
B



C



D

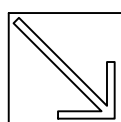


E

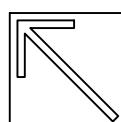
### Section 4: Odd One Out

Which option below doesn't fit in with the other 4?

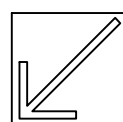
Example:



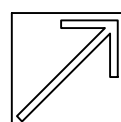
A



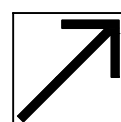
B



C



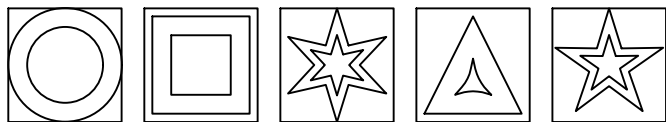
D



E

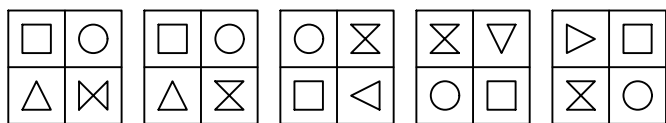
The answer is E as it is coloured in and the others aren't.

21.



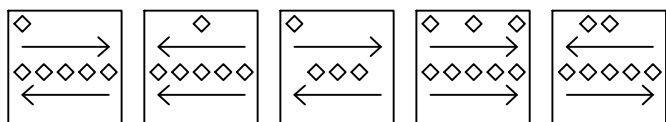
A B C D E

23.



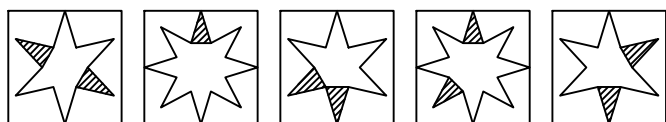
A B C D E

25.



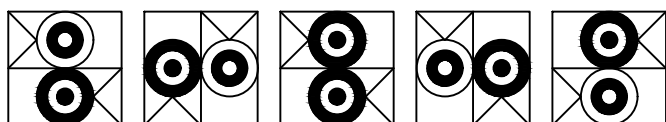
A B C D E

27.



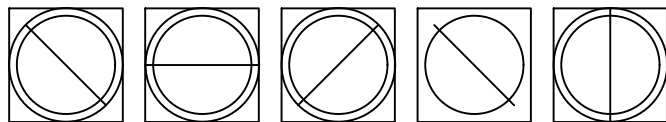
A B C D E

29.



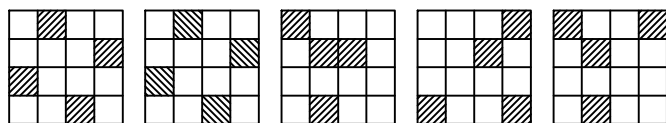
A B C D E

22.



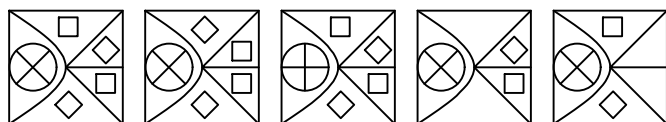
A B C D E

24.



A B C D E

26.



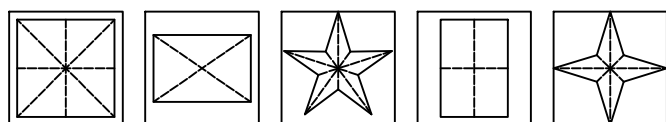
A B C D E

28.



A B C D E

30.

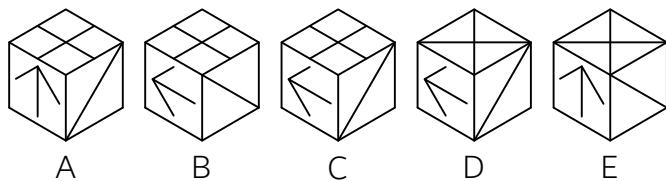
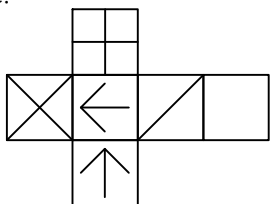


A B C D E

## Section 5: Nets

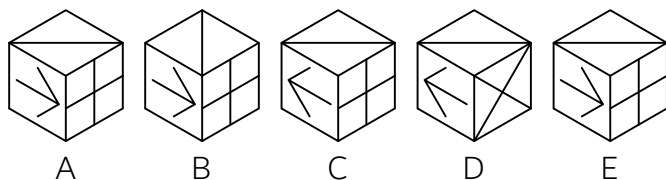
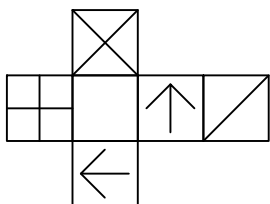
Which option on the right can be made using the net on the left?

Example:

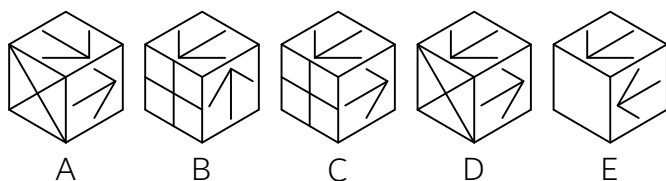
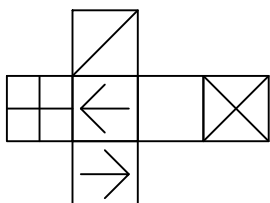


The answer is C.

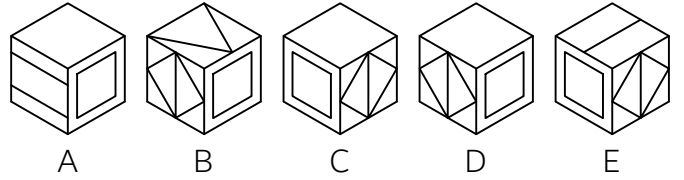
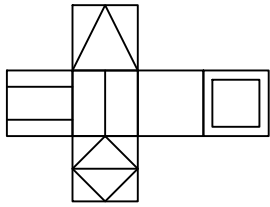
31.



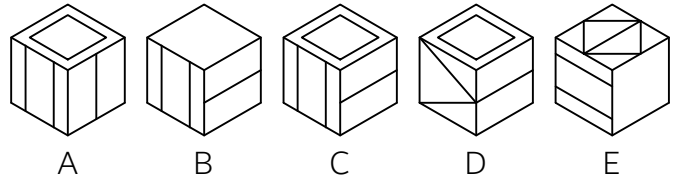
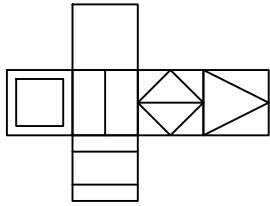
32.



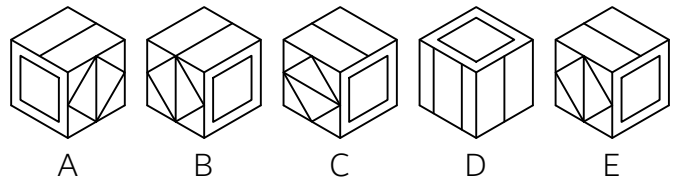
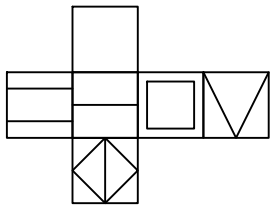
33.



34.



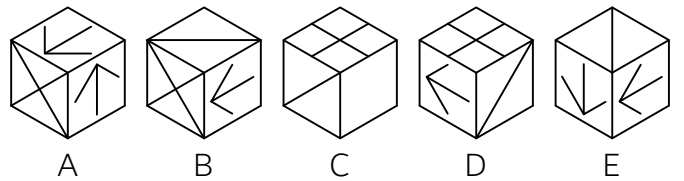
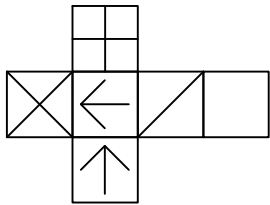
35.



## Section 6: Nets

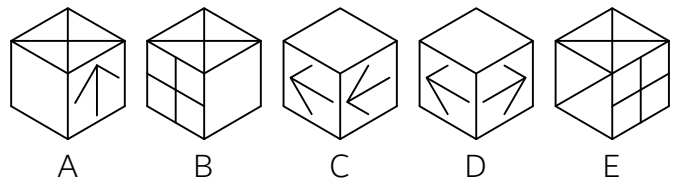
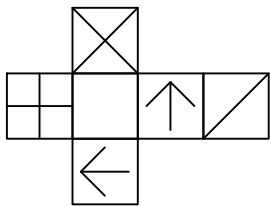
Which option on the right can't be made using the net on the left?

Example:

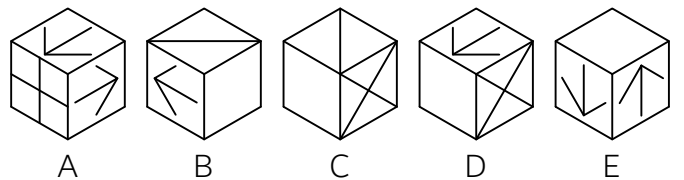
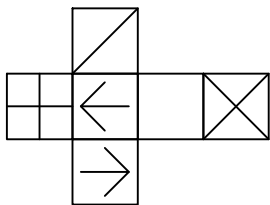


The answer is B.

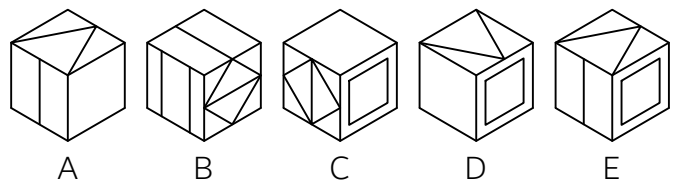
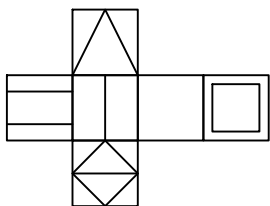
36.



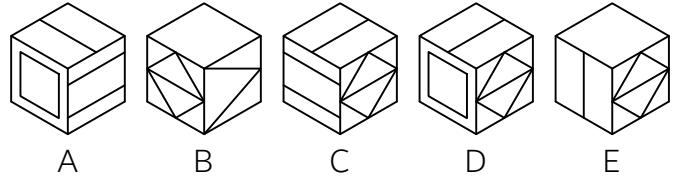
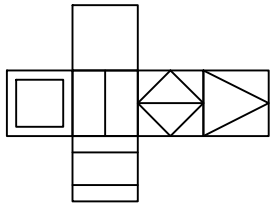
37.



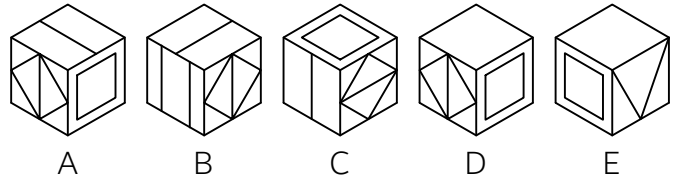
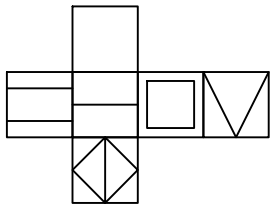
38.



39.



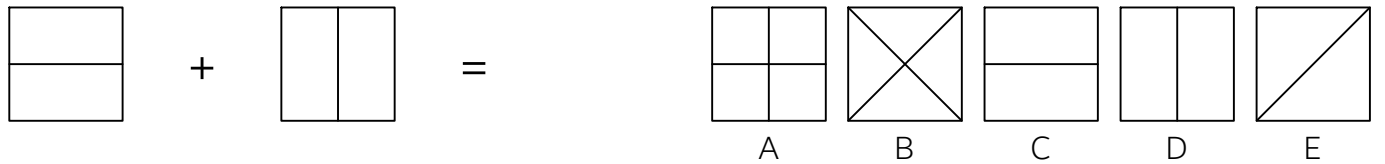
40.



## Section 7: Merge Shapes

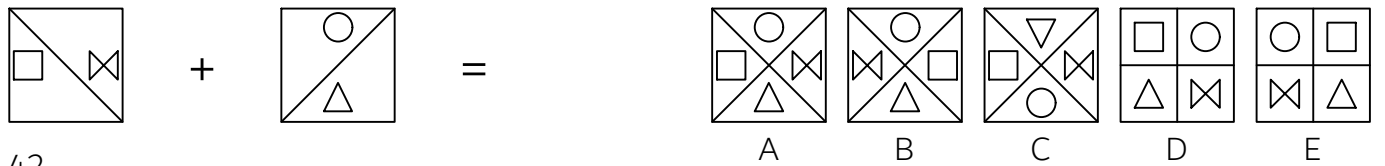
Which option on the right is made when adding or subtracting the patterns on the left?

Example:

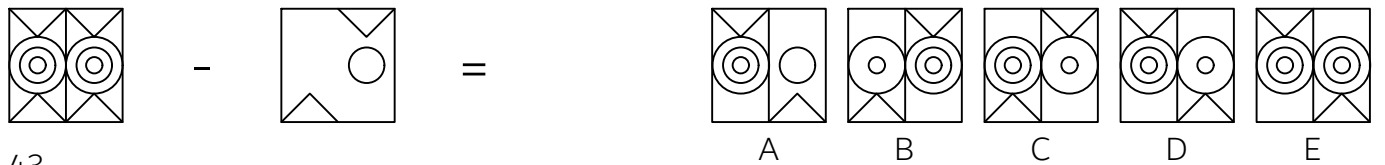


The answer is A.

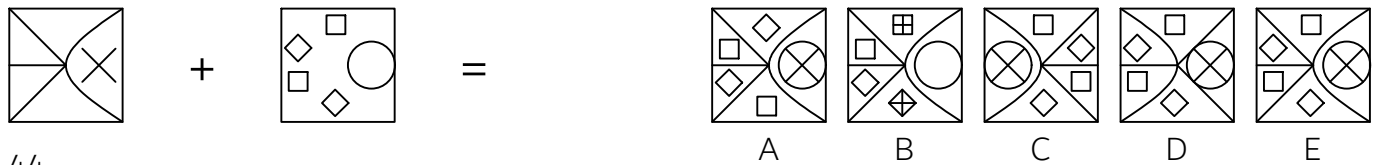
41.



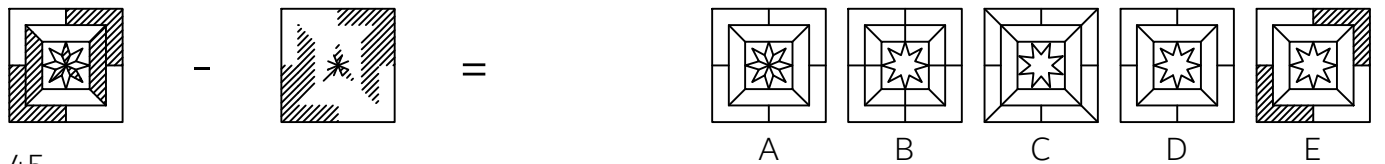
42.



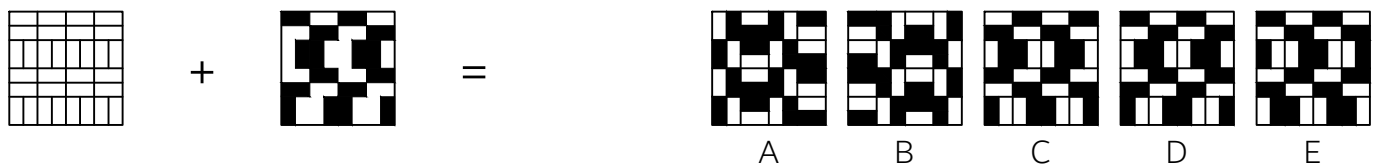
43.



44.



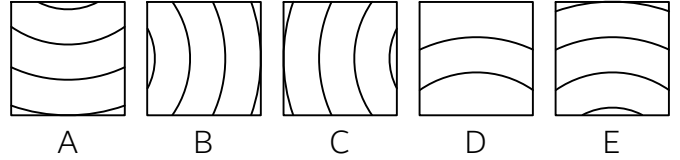
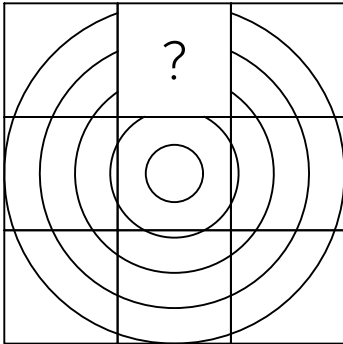
45.



## Section 8: Grids

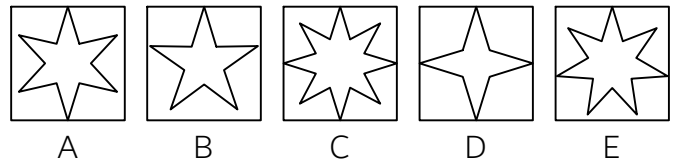
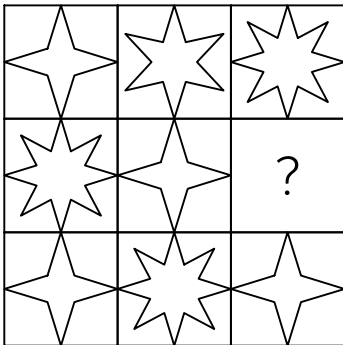
Which option on the right completes the grid on the left in the most sensible way? Patterns may go diagonally, vertically, horizontally, from top left to bottom right or otherwise.

Example:

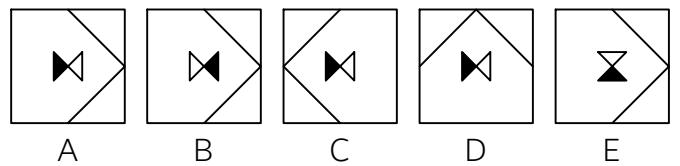
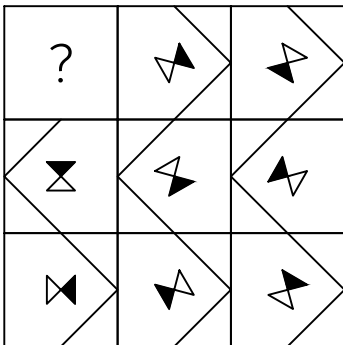


The answer is E.

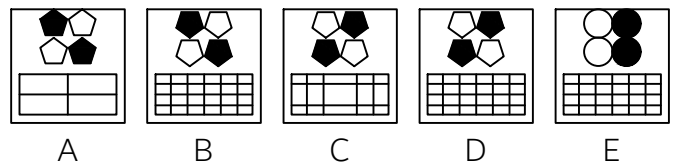
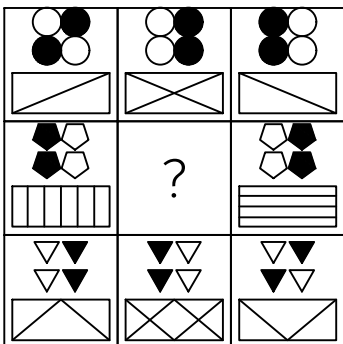
46.



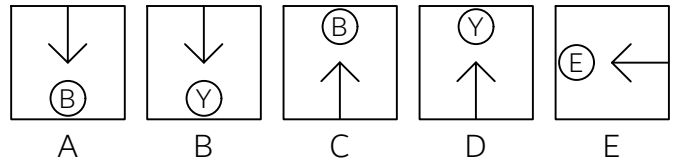
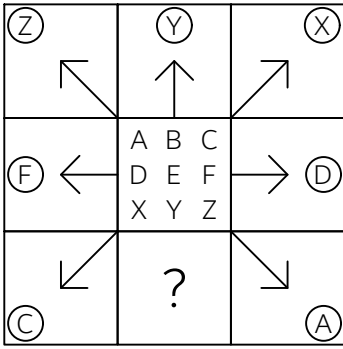
47.



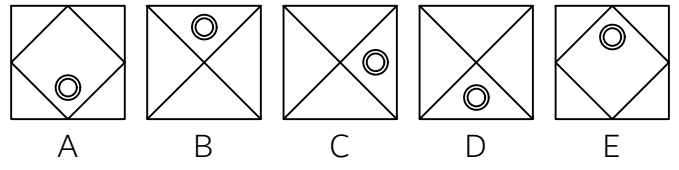
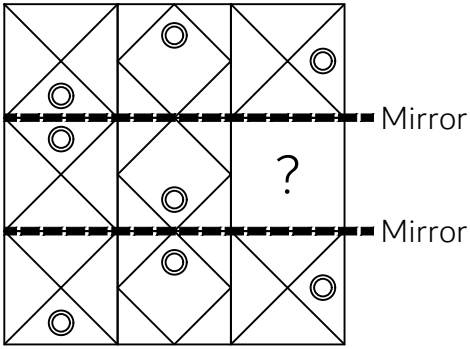
48.



49.

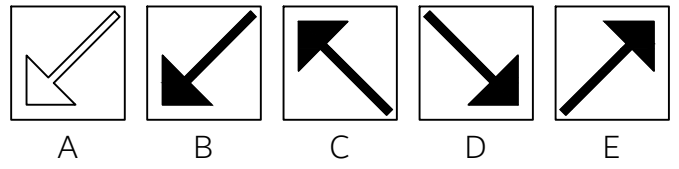


50.



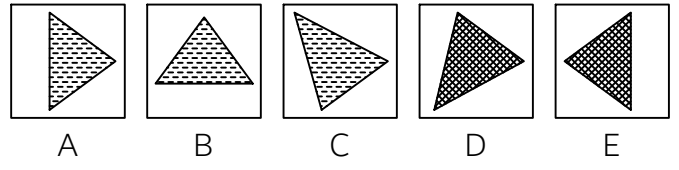
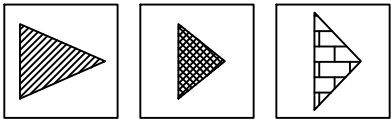
### Section 9: Like Figures

The three shapes on the left are alike in some way. Which option is most alike in the same way?  
Example:

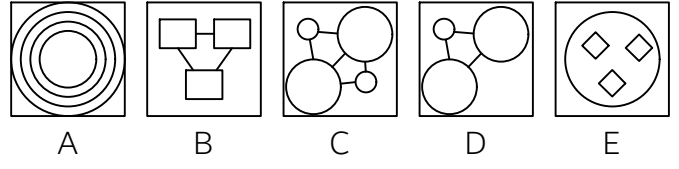
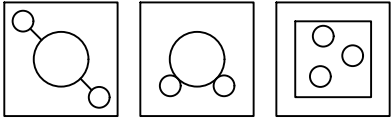


The answer is E as they are all arrows pointing to the top right.

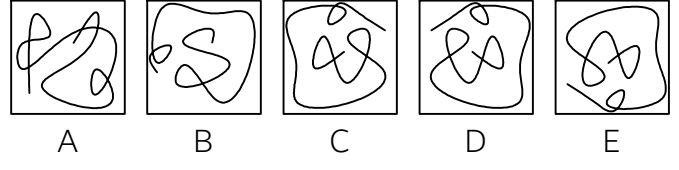
51.



52.

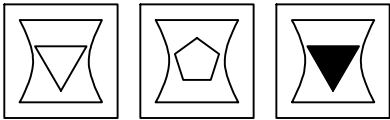


53.

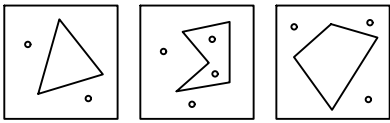




54.



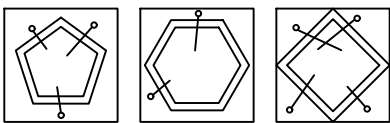
55.



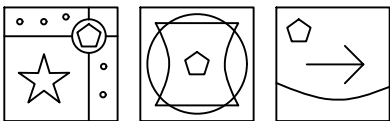
56.



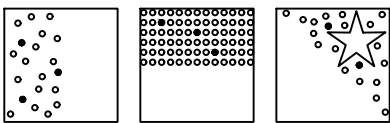
57.



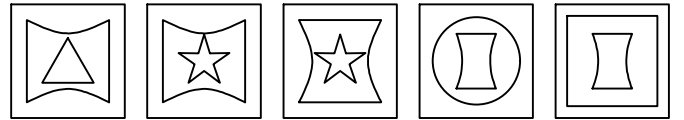
58.



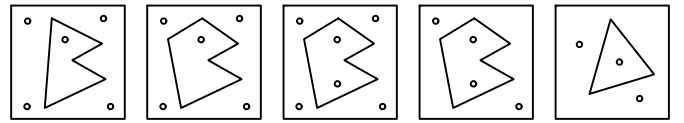
59.



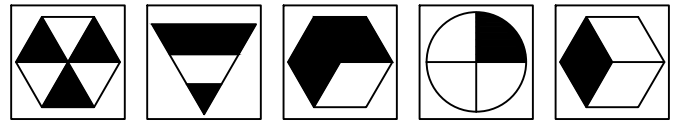
60.



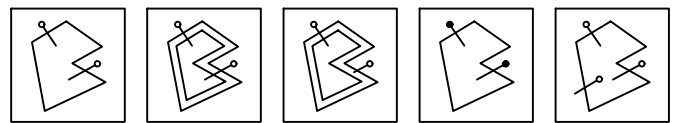
A B C D E



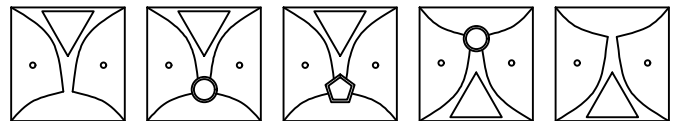
A B C D E



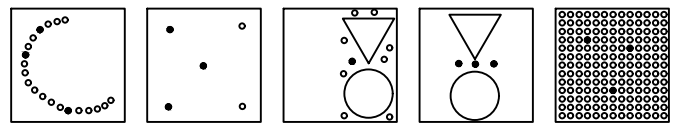
A B C D E



A B C D E



A B C D E



A B C D E



A B C D E

End of Paper

Any questions or spotted a mistake?  
Please email [curtis@cgmaths.co.uk](mailto:curtis@cgmaths.co.uk)