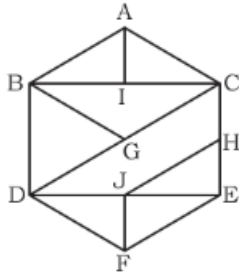


## Division / Counting of Figures

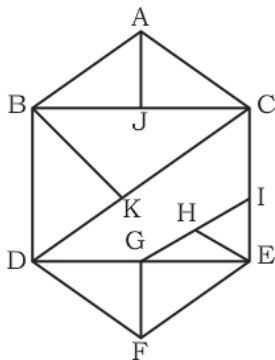
### Solution

1. **Answer(A):**



$\triangle ABI, \triangle AIC, \triangle ABC, \triangle BGD, \triangle BGC, \triangle BDC,$   
 $\triangle DJF, \triangle EJF, \triangle DFE, \triangle JHE, \triangle DCE$

2. **Answer(C):**

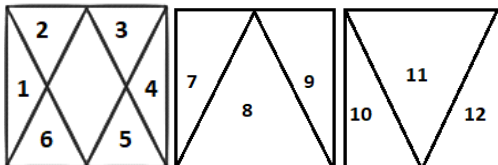


$\triangle ABJ, \triangle AJC, \triangle ABC, \triangle BKD, \triangle BKC, \triangle BDC, \triangle D$   
 $\triangle FG, \triangle FGE, \triangle DFE, \triangle EGH, \triangle HEI, \triangle GIE, \triangle DCE$   
Total number of triangle 13

3. **Answer: (B)**

Triangles in the given figure is shown below,  
Hence, "26" is correct answer.

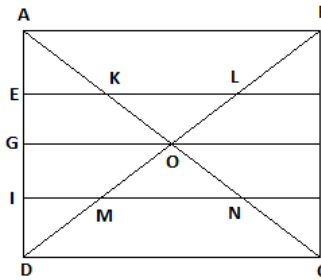
4. **Answer: (B)**



Clearly, there are 12 triangles in the given figure.

5. **Answer: (C)**

The numbers of triangle are showing below:



Small triangles = AKE, BLF, IMD, NJC, KOL, MNO

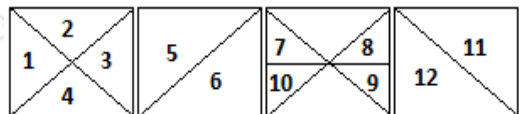
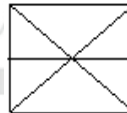
Triangles (containing 2 figures) = AGO, GOD, BOH, COH, AOB, COD

Triangles (containing 4 figures) = AOD, BOC, BMJ, ANI, CKF, DEL

Big triangles = ADC, BCD, ABD, ABC

Thus, total triangles = 22

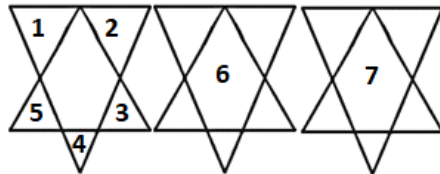
6. **Answer: (C)**



Hence, the number of triangles is 12.

7. **Answer: (B)**

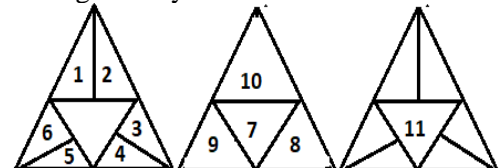
The figure may be labelled as:



Thus, the total number of Triangle is 7.

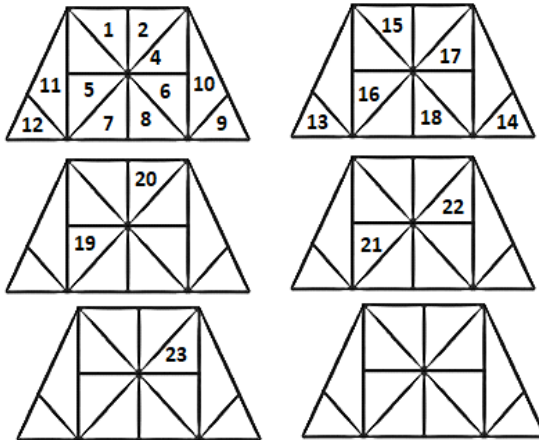
8. **Answer: (B)**

The figure may be labeled as:



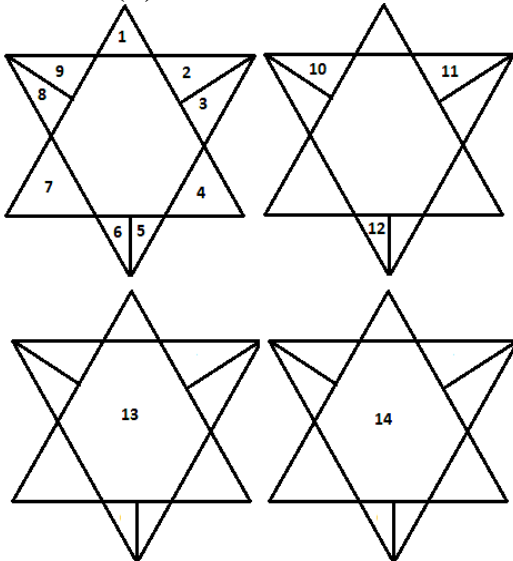
Thus, total number of triangle is 11.

9. **Answer: (C)**



Hence, total 24 triangles are there in given figure.

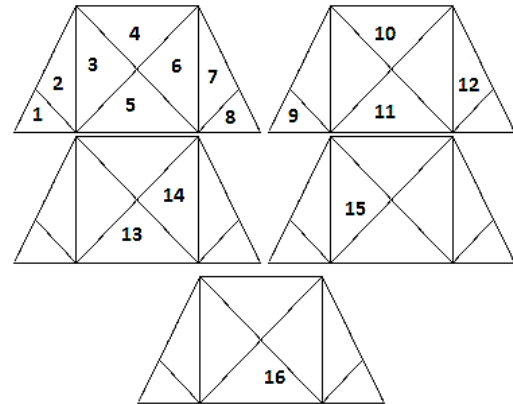
10. **Answer: (B)**



Hence, 14 is the correct answer.

11. **Answer: (B)**

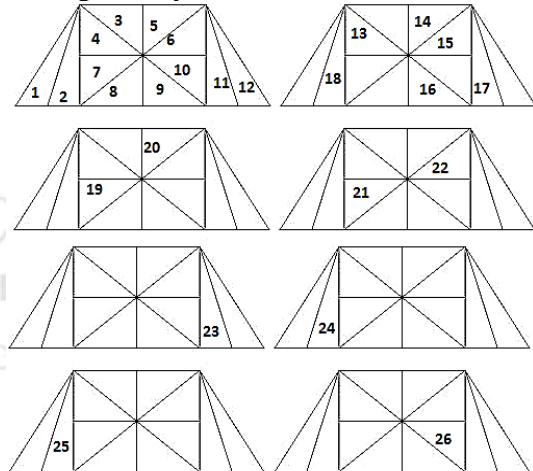
The figure may be labelled as:



Thus, the total number of Triangle is 16.

12. **Answer: (C)**

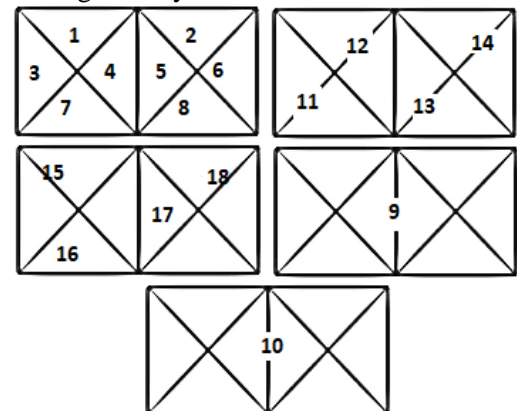
The figure may be labelled as:



Thus, the total number of triangles is 26.

13. **Answer: (B)**

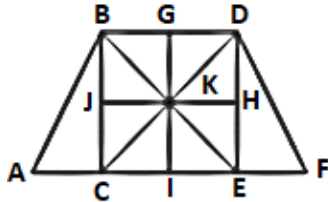
The figure may be labeled as:



Thus, the total number of triangles is 18.

**14. Answer: (C)**

The figure may be labeled as:

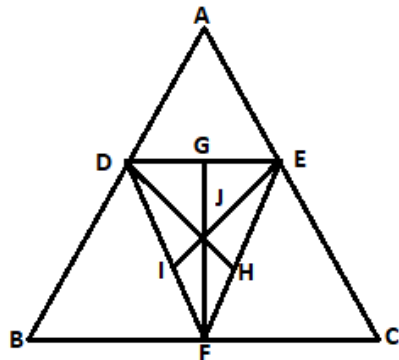


The possible triangle are: ABC, DEF, BKG, GKD, DKH, HKE, EKI, IKC, CKJ, JKB, BCE, DEC, BAE, DCF, KCE, KDB, KCB, KDE, BCD and DEB.

Thus, the total no, of Triangle is 20.

**15. Answer: (D)**

The figure may be labeled as:

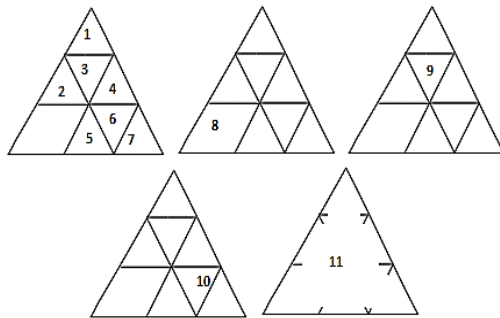


The possible triangle are: ABC, ADE, BDF, EFC, GJE, EJH, HJF, FJI, IJD, DJG, FDE, FGD, FGE, EIF, EID, DJE, EJF, FJD, DHF and DHE.

Thus, the total no, of Triangle is 20.

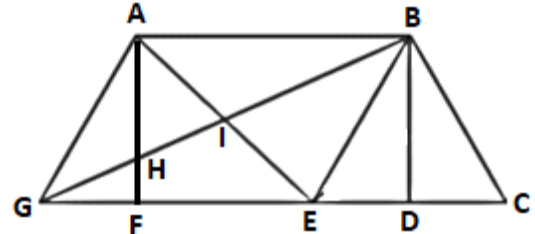
**16. Answer: (B)**

The figure may be labeled as:



Thus, the total number of triangle formed is 11.

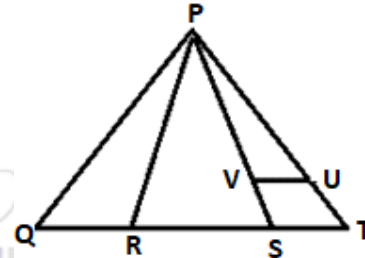
**17. Answer: (B)**



Triangles in the given figure: AGF, AFE, AGE, AGH, AHI, AHB, AIB, AGI, AGB, GHF, GIE, BEI, BED, BDC, BEC, BGD, BCG

Hence, the correct answer is 16.

**18. Answer: (B)**

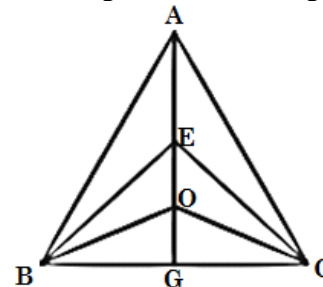


Triangles in the given figure: PQR, PRS, PST, POS, PRT, PVU, POT

Hence, the correct answer is 7.

**19. Answer: (D)**

Counting number of triangles:



The triangles in the above figure are,  
BGD, BGE, BGA, CGD, CGE, CGA, BDC,  
BEC, BAC, ABD, ABE, ACD, ACE, BED  
and CED

The number of triangles in the given figure is 15.

Hence, option 4 is correct

**20. Answer: (D)**



Hence, the number is 24.

