

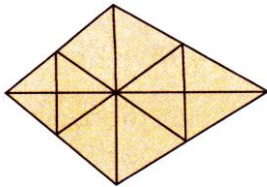
Analytical Reasoning

REASONING WORKBOOK

The chapter Analytical Reasoning is based upon the counting of various geometrical figures in a given complex figure.

EXAMPLE

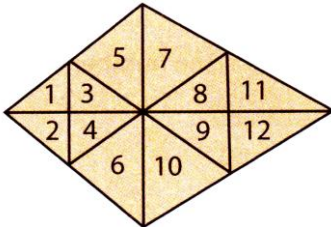
1. Count the number of triangles in the following figure.



- (a) 16 (b) 22 (c) 28 (d) 32

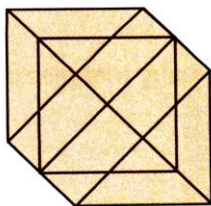
Explanation (c):

Let us label the components of given triangle as given below:



Number of triangles made up of one component (triangle) each = 12.
There names are : 1, 2, 3, ..., 12.
Number of triangles made up of two components each = 8.
Similarly, number of triangles made up of 3 components each = 4.
And number of triangles made up of 6 components each = 4.
Hence, number of all the triangles
= $12 + 8 + 4 + 4 = 28$.

2. In the following question, find the number of straight lines in the given figure.



- (a) 18 (b) 20 (c) 24 (d) None of these

Explanation (d)