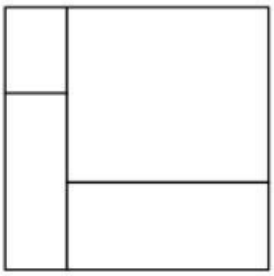
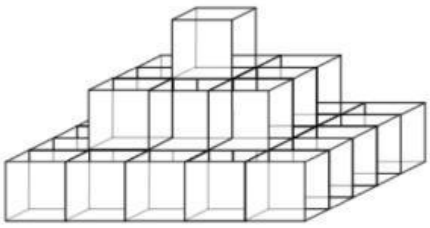
1. If the three-digit number 2N3 is divided by 6, the remainder is 1. Find N.
2. In a group of 40 students, there are 9 girls more than boys. What is the number of girls?
3. What is the value of the number to represent "?" in the following table?

1	1	2
2	3	8
3	5	18
4	7	?
5	9	50

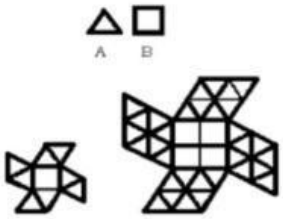
4. The diagram shows a square being divided into four rectangles. If the sum of the perimeter of the four rectangles is 40 cm, find the area of the square.



5. A number of cubes are stacked as shown seen in the figure below. The highest level consists of one cube, the second highest level consists of 3×3 cubes, the third highest level consists of 5×5 cubes, and so on. How many cube in 5^{th} highest level?



6. Two numbers add up to 30 and the difference is 25. The product of the two numbers is...
7. The equilateral triangle A and the square B below have a side of 1 unit. Pattern 1 and Pattern 2 are formed using these triangles and squares.



Pattern 1 Pattern 2

Use the available number of triangles and squares to form Pattern 3.
How many squares and triangles are needed?

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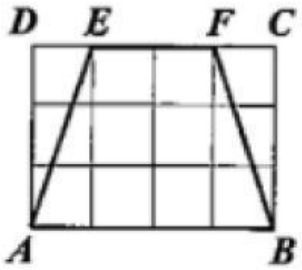
8. There are parrots and rabbits in a pet store. The number of parrots is 50 more than that of rabbits and the total number of legs of the parrots is 40 more than that of the rabbits. How many parrots are there in the pet store?
9. An operator ★ acts on two numbers to give the following outcomes:
   3 ★ 2 = 51
   5 ★ 3 = 82
   6 ★ 1 = 75
   9 ★ 4 = 135
   What is 7 ★ 5 equal to?
   Answer : 122
   We have to know the pattern of the number.
10. ABCD is a rectangle whose area is 12 square units. How many square units are contained in the area of trapezoid EFBA?



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