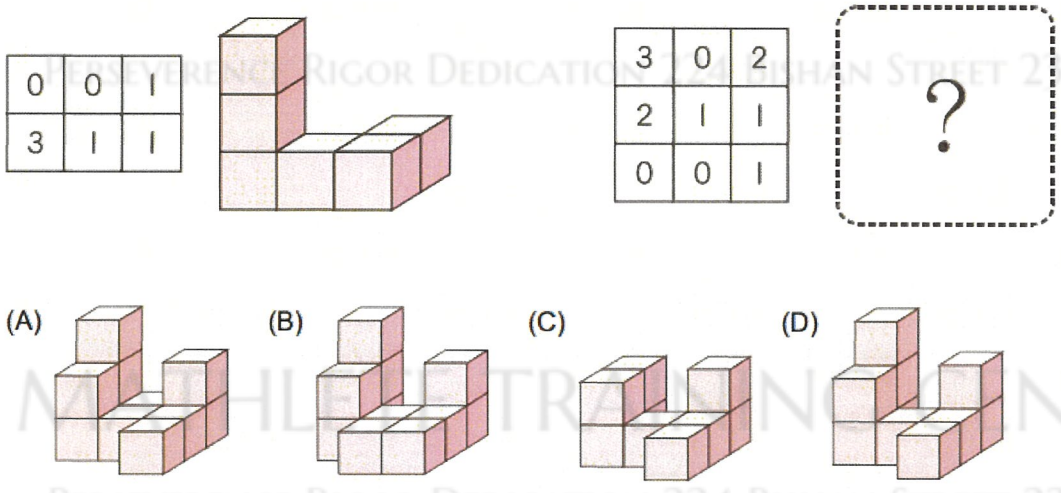
Mathlete Training Centre
WMI 2022 GRADE 3B

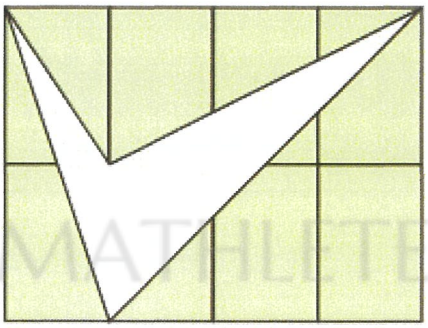
1. $202 \div 2 + 20 \times 22 = ?$

   (A) 481 **(B)** 544 **(C)** 541 **(D)** 844

2.

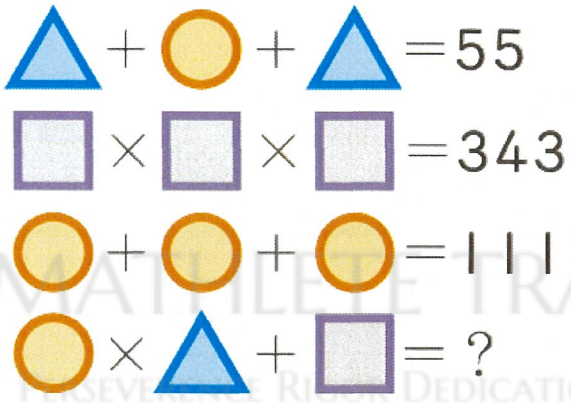


3. As shown below, the area of each of the 8 small rectangles is $36cm^2$. Find the area of the ✓ in cm^2.



(A) 108 **(B)** 96 **(C)** 84 **(D)** 72

4.

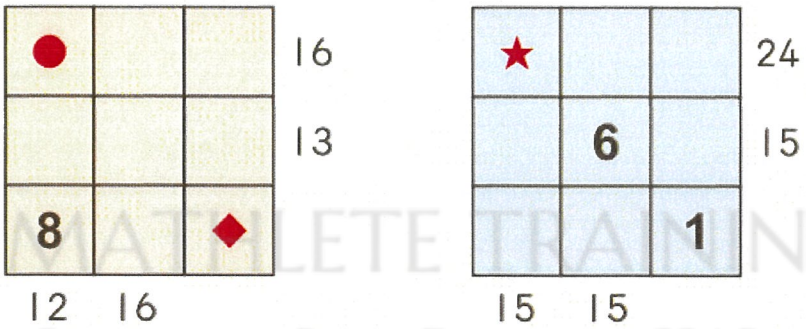


(A) 340 **(B)** 326 **(C)** 290 **(D)** 266

5. Given twenty balls which are marked from 1-20. At least how many of them should be picked to make sure that the sum of the numbers on two of the balls is 20?

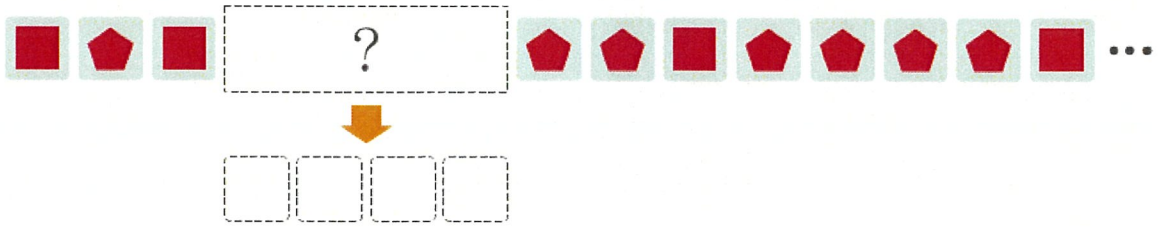
   (A) 12 **(B)** 11 **(C)** 10 **(D)** 9

6. Write numbers 1-9 in each □ without repetition. Some numbers are written. The numbers which are marked outside the square are the sums of the numbers in a row or column. Find ●+◆+★.



   (A) 18 **(B)** 17 **(C)** 14 **(D)** 13

7.



(A) 

(B) 

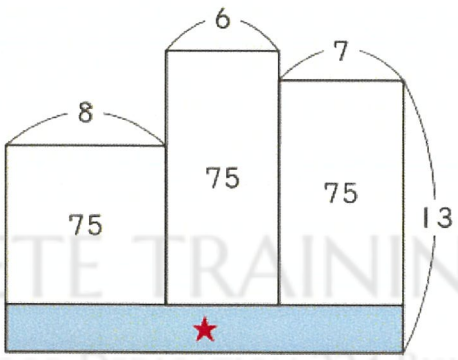
(C) 

(D) 

8. Operate 2022 in the following way: Each time, the last two digits×the last digit, and write the last two digits of the product behind this number. For example, operate 2022 once, and the result is 202244. Find the sum of the last two digits of the product whne 2022 is operated for 100 times.

(A) 7 (B) 9 (C) 11 (D) 13

★ = ?

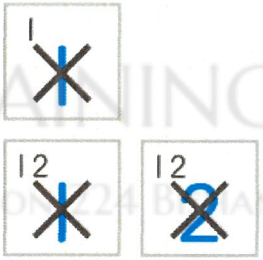


9.

(A) 42 **(B)** 45 **(C)** 48 **(D)** 50

10. Given a sudoku game with numbers 1-4 below. Suppose the numbers in each row, each column, and each thick frame do not repeat, and the number(s) in the corner of each square cannot be written in the square, find the sum of the numbers in the shaded squares.

4	2	34	1
23	13	14	2
1	23	12	14
4	14	3	3



(A) 12 **(B)** 13 **(C)** 14 **(D)** 15