

# Exercise 1

## NUMBER PATTERNS AND SEQUENCES

1. Write the next three numbers in each sequence below.

a. 2, 4, 8, 16, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

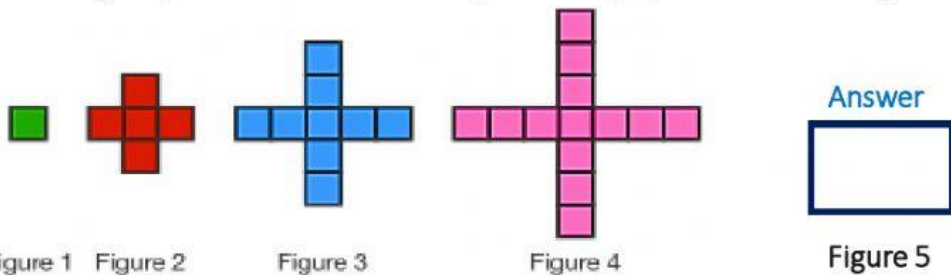
b. 1, 4, 7, 10, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

c. 1, 4, 9, 16, 25 \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

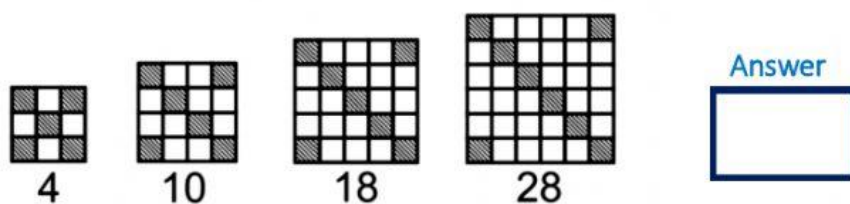
d. 7, 8, 15, 23, 38 \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

e. 47, 40, 45, 38, 43, 36, 41 \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

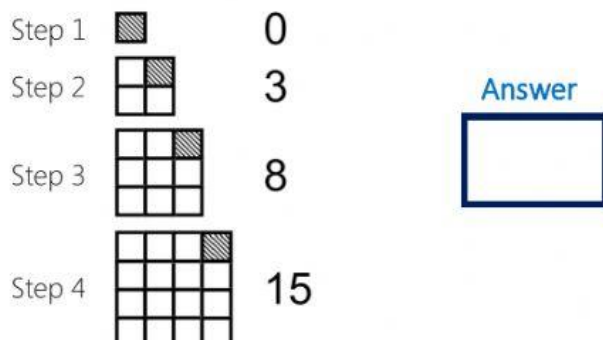
2. Assuming the pattern below continues, how many squares will be in Figure 5?



3. Sequences Based on Position. What comes next?




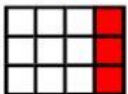
4. Sequences Based on Position. What comes next?

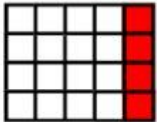


5. Sequences Based on Position. What comes next?

Step 1  2

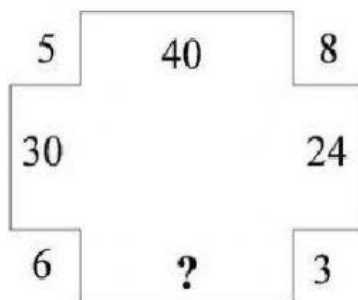
Step 2  6

Step 3  12

Step 4  20

Answer

6. What number fits into the question mark?



Answer: