

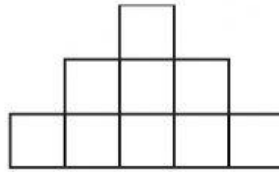
### Unit 3 - Numbers and sequences



English Private School of Kollam

Name: \_\_\_\_\_ Grade 4/Year 5 \_\_\_\_\_

Q1) This pattern makes a sequence.



a) Complete the following table.

Row number	1	2	3	4	5	6	7
Number of squares in a row	1	3	5				

b) What is the term-to-term rule for the sequence.

\_\_\_\_\_

Q2) A sequence starts at 16.

4 is subtracted each time.

Write the next four terms in this sequence.

\_\_\_\_\_

Q3) The numbers in this sequence increase by the same amount each time.

What is the first term in the sequence shown?

\_\_\_\_\_, 24, 30, 36, 42

Q4) A sequence starts at 300 and 60 is added each time.

Write the next two numbers in the sequence.

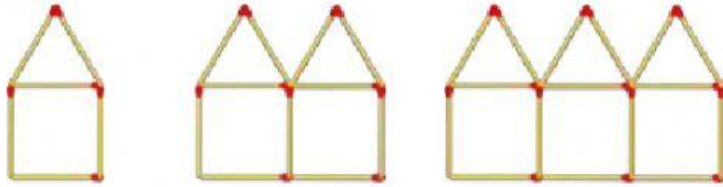
300, 360, 420, 480, \_\_\_\_\_, \_\_\_\_\_.

Q5) Given the first term and the term -to- term rule, write down the first five terms for the following sequence.

First term: 4, term to term rule : add 7

4, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

Q6) Here are some patterns made from matchsticks.



a) Complete the following table and calculate the numbers of matchsticks in the fourth pattern.

Pattern number	1	2	3	4
Number of matchsticks	6	11	16	

b) What is the term-to-term rule?

\_\_\_\_\_

c) How many matchsticks are in the 10<sup>th</sup> pattern?

\_\_\_\_\_

Q7) Look at these patterns below.



a) Write the next two terms in the sequence.

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

b) What is the mathematical name for these numbers.

\_\_\_\_\_

Q8) Look at these patterns below.



a) Write the next two terms in the sequence.

1, 3, 6, 10, \_\_\_\_\_, \_\_\_\_\_.

b) What is the mathematical name for these numbers.

\_\_\_\_\_

Q9) Find the value of:

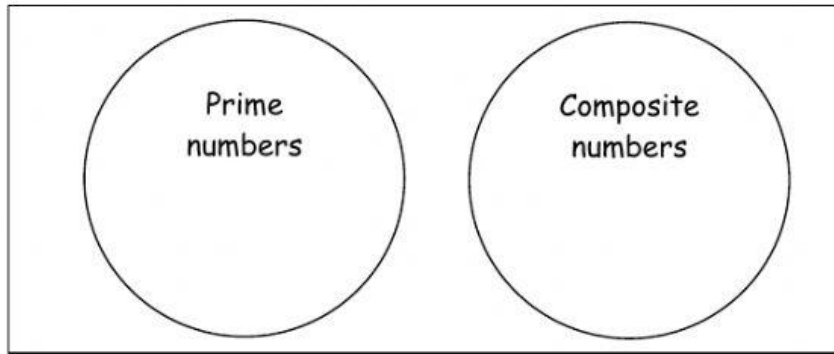
a)  $7^2 =$  \_\_\_\_\_

b)  $9^2 =$  \_\_\_\_\_

Q10) What is the eighth square number? \_\_\_\_\_

Q11) Write each number in the correct place on the Venn diagram.

2, 3, 4, 5, 6, 7, 8



Q12) Complete these sentences.

a) A number with only two factors is called a \_\_\_\_\_ number.

b) A number with more than two factors is called a \_\_\_\_\_ number.