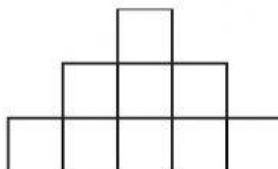


Unit 3 - Numbers and sequences

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.

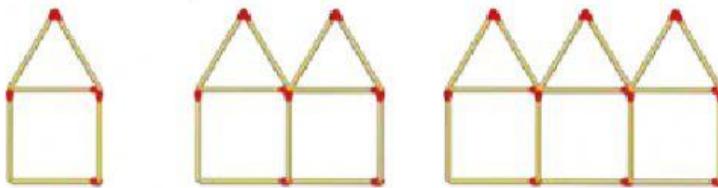
300, 360, 420, 480, _____, _____.

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.



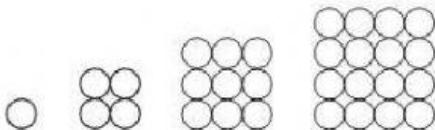
a) Complete the following table and calculate the numbers of matchsticks in the fourth pattern.

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 10th 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.

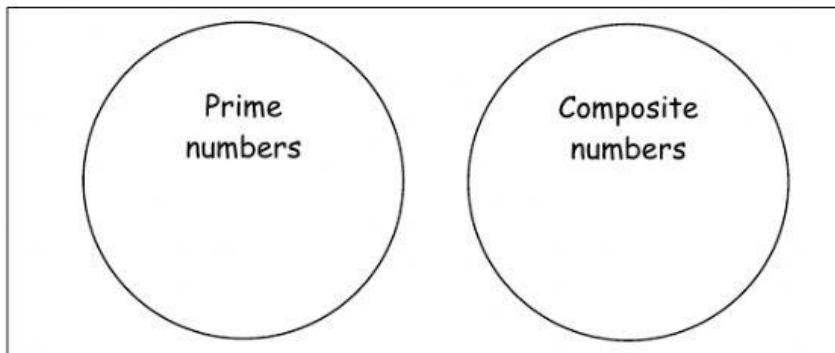
Q9) Find the value of:

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.