

# Number Sequences Homework Level 3 – 4

If you can't do a question then move onto the next one. We will go over this in class next week.

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

Write in the missing numbers



|   |  |  |    |
|---|--|--|----|
| 1 |  |  | 13 |
|---|--|--|----|

1 mark

2. Here is a repeating pattern of shapes.

Each shape is numbered.



The pattern continues in the same way.

Write the numbers of the next two **stars** in the pattern.



|  |     |  |
|--|-----|--|
|  | and |  |
|--|-----|--|

1 mark

Complete this sentence.

**Shape number 35 will be a circle because ...**



.....  
 .....  
 .....

1 mark

3. The first two numbers in this sequence are 2.1 and 2.2

The sequence then follows the rule

**'to get the next number, add the two previous numbers'**

Write in the next two numbers in the sequence.

 2.1      2.2      4.3      6.5           

2 marks

4. Hayley makes a sequence of numbers.

Her rule is

**'find half the last number then add 10'**

Write in the next two numbers in her sequence.

 36      28      24           

2 marks

5. In this sequence each number is double the previous number.

Write in the missing numbers.

             3      6      12      24      48     

2 marks

6. Write the **two** missing numbers in this sequence.

  $\frac{1}{4}$        $\frac{1}{2}$        $\frac{3}{4}$       1             $1\frac{1}{2}$             2

1 mark

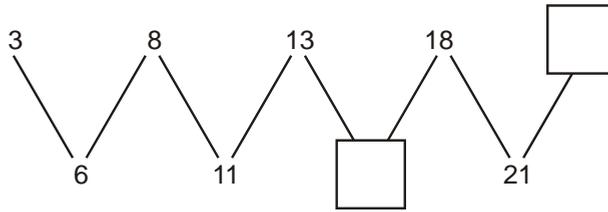
7. Write the missing numbers in this sequence.

 64      32      16            4     

1 mark

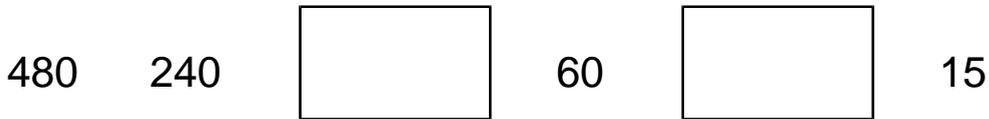
8. Here is a number sequence.

Write in the **missing** numbers.



2 marks

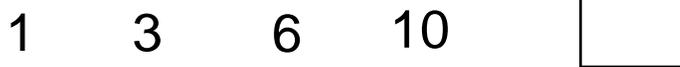
9. Write in the missing numbers in this sequence.



1 mark

10. Here is a number sequence.

Write the **missing** number.



Explain how you worked it out.



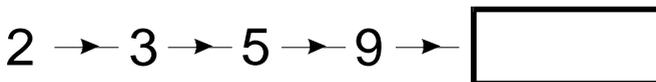
.....  
.....  
.....

2 marks

11. The rule for this number sequence is

***“double and subtract 1”***

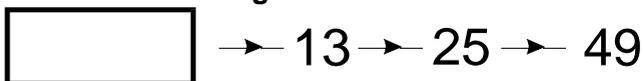
Write in the **missing** number.



1 mark

Here is part of **another** sequence with the **same** rule.

Write in the **missing** number.



1 mark