



المدرسة وينشستر  
The Winchester School

#20yearsofWIN

## Subject: Mathematics

Term 1 – Week 3

Topic: Numbers Number Sequence, Roman Numerals and Rounding to 10's 100's and 1000's

### number sequence

An ordered set of numbers where the order is determined by a rule.

Some common number sequences include:

#### Arithmetic sequences

• same number added each time

▶ 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, ...

#### Geometric sequences

• multiplied by same number each time

▶ 2, 4, 8, 16, 32, 64, 128, 256, 512, ...

#### Odd numbers

▶ 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, ...

#### Even numbers

▶ 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, ...

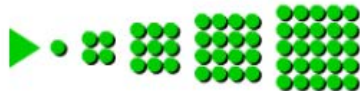
#### Prime numbers

▶ 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31 ...

#### Composite numbers

▶ 4, 6, 8, 9, 10, 12, 14, 15, 16, 18, 20 ...

#### Square numbers



1, 4, 9, 16, 25, ...

#### Triangular numbers



1, 3, 6, 10, 15, ...

#### Fibonacci numbers

▶ 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, ...

The Fibonacci number sequence is named after the Italian mathematician Leonardo Fibonacci (1175-1250).  
Each number is the sum of the two numbers before it.

## ROMAN NUMERALS CHART

1	I
2	II
3	III
4	IV
5	V
6	VI
7	VII
8	VIII
9	IX
10	X

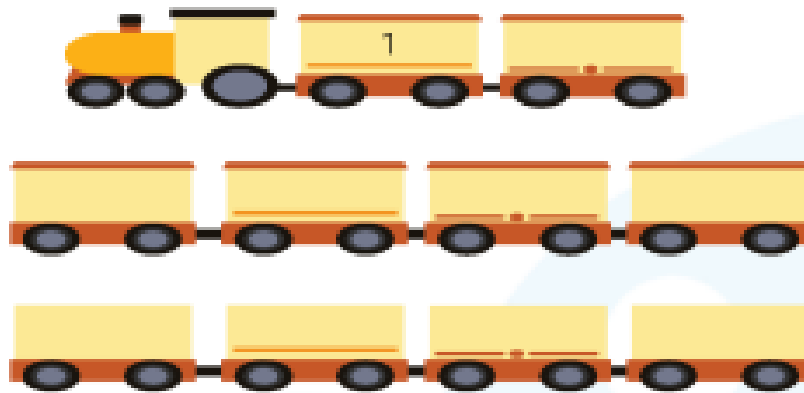
11	XI
20	XX
30	XXX
40	XL
50	L
60	LX
70	LXX
80	LXXX
90	XC
100	C

200	CC
300	CCC
400	CD
500	D
600	DC
700	DCC
800	DCCC
900	CM
1000	M
1001	MI

I	V	X	L	C	D	M
1	5	10	50	100	500	1000

## Number Sequence Worksheets

- 1) Fill out the train compartment numbers starting from 1 in the picture given below.



- 2) Some fishes missed their numbers. Please help them find out their number and complete the number sequence.



- 3) Find the missing numbers in the number sequence given below.

100		102			105
106			109		

4) Follow the sequence and fill in the missing number.

89	88	87		85
30	25	20		10

5) Fill in the missing numbers in the number line.



6) Find out the incorrect number in the sequence.

133	134	139	135	136	137	138
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7) Using the given instruction to fill in the missing numbers.

**Add 2:**

a) 14 \_\_\_\_, \_\_\_\_, 20

b) 32 \_\_\_\_, \_\_\_\_, 38

8) Make a number pattern by arranging the numbers in the correct sequence.

29	21	25
23	26	24
27	22	28

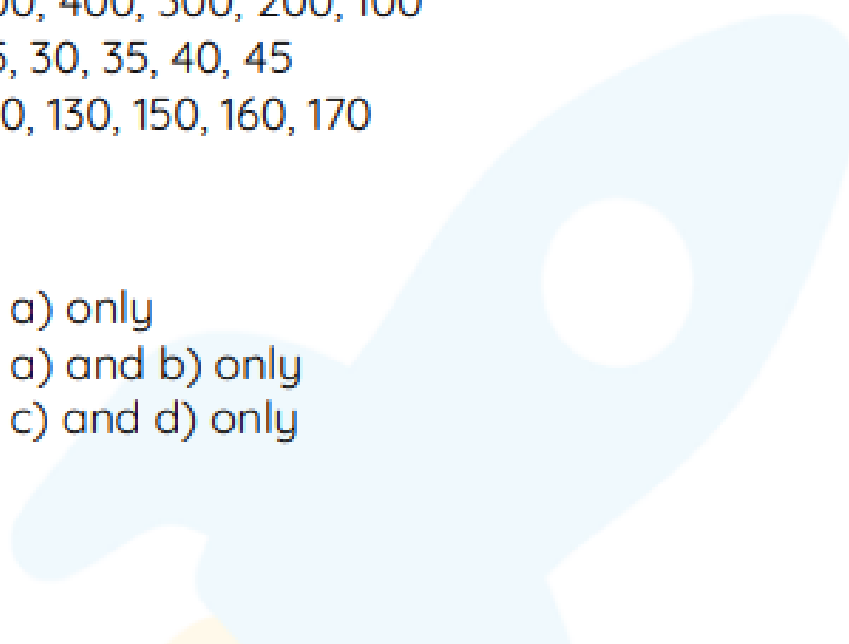
9) Fill in the missing numbers and find the rule in which the numbers are sequenced.



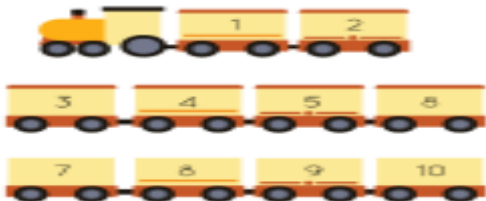
10) Find the correct sequence of numbers.

- a) 300, 295, 290, 285, 280
- b) 600, 400, 300, 200, 100
- c) 25, 30, 35, 40, 45
- d) 120, 130, 150, 160, 170

- 1. a) only
- 2. a) and b) only
- 3. c) and d) only



## ANSWERS

1)	
2)	The missing numbers are 16 and 18.
3)	100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111
4)	89, 88, 87, 86, 85 30, 25, 20, 15, 10
5)	10,12
6)	139

7)	16, 18 34, 36									
8)	<table border="1"><tr><td>21</td><td>22</td><td>23</td></tr><tr><td>24</td><td>25</td><td>26</td></tr><tr><td>27</td><td>28</td><td>29</td></tr></table>	21	22	23	24	25	26	27	28	29
21	22	23								
24	25	26								
27	28	29								
9)	The missing numbers are 150 and 160. The numbers in the sequence increase by 10.									
10)	a) only									

# Roman numerals

- 1 Match the numbers to the Roman numerals.

1

L

5

C

10

V

50

X

100

I

- 2 Write each number in Roman numerals.

a) 7

d) 55

g) 17

b) 12

e) 72

h) 41

c) 23

f) 89

i) 27

- 3 Eva lives in this house.

What number does Eva live at?



- 4 Jack rolls two 6-sided dice.

What is Jack's total score?



Alex rolls the same two dice and gets two different numbers.

Her score is the same as Jack's.

What numbers could Alex have rolled?

- 5 Write each Roman numeral in numerals and words.

a) XXIV

c) LXVIII

e) XXVIII

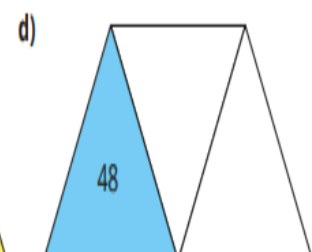
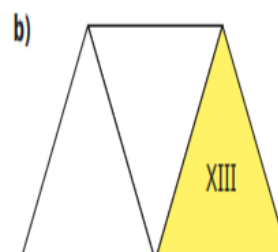
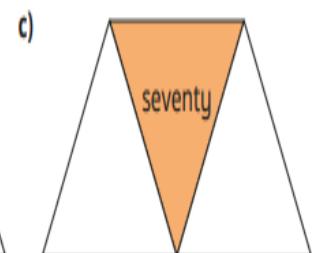
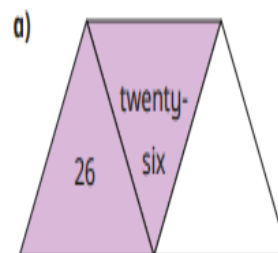
b) LXXI

d) XCVI

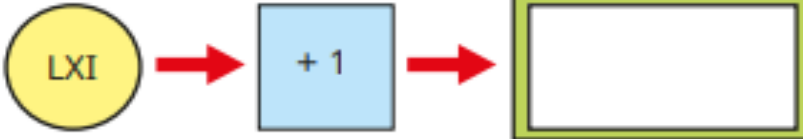
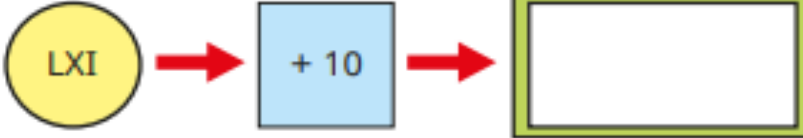
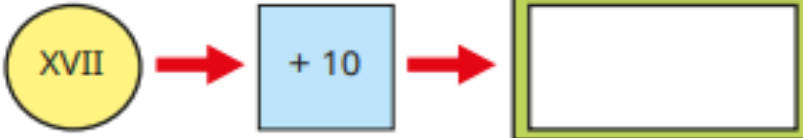
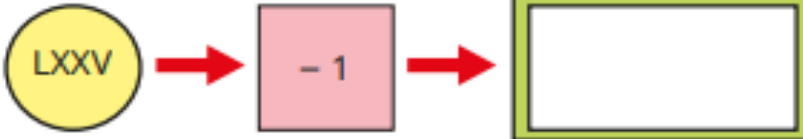

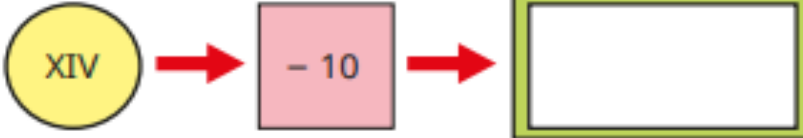
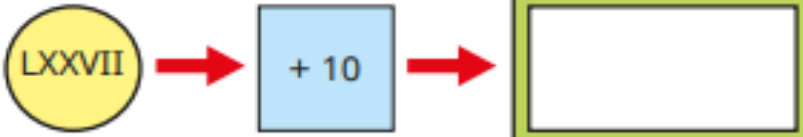
f) XCI

- 6 Each diagram should show a number in numerals, words and Roman numerals.

Complete the diagrams.



7 Complete the function machines.

- a) 
- b) 
- c) 
- d) 
- e) 
- f) 
- g) 

8 Complete the calculation.

$$XXIX + \boxed{\phantom{00}} = LXI + \boxed{\phantom{00}}$$

How many other calculations can you write that give the same total?

Compare answers with a partner.



Question	Answer
1	
2	a) VII b) XII c) XXIII d) LV e) LXXII f) LXXXIX g) XVII h) XLI i) XXVII
3	Eva lives at number 24
4	7 Alex could have rolled 1 and 6 (I and VI) or 3 and 4 (III and IV) in any order.
5	a) 24      twenty-four b) 71      seventy-one c) 68      sixty-eight d) 96      ninety-six e) 28      twenty-eight f) 91      ninety-one
6	a) XXVI b) 13      thirteen c) 70      LXX d) forty-eight      XLVIII
7	a) LXII b) LXXI c) XXVII d) LXXIV e) LVIII f) IV g) LXXXVII
8	multiple possible answers, e.g. $XXIX + XLI = LXI + IX$