المدرسة العصرية العالمية
MODERN INTERNATIONAL SCHOOL
تحت إشراف وزارة التربية والتعليم
(Under the supervision of Ministry of Education, Oman)

Worksheet 2 – MATH 1st Semester

NAME:_____ **GRADE: 4** ____

DATE: _____

Topic: Unit 1.1 Counting and sequences

Focus

1 Hassan shaded in grey these numbers on a hundred square. The numbers form a pattern.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

a What is Hassan's rule for finding the next number?

_____

_____

b What is the next number in his pattern?

_____

2 The sequence 10, 16, 22, . . . continues in the same way.
Write the next **two** numbers in the sequence.

_____, _____

3 The rule for a sequence of numbers is 'add 3' each time.

1, 4, 7, 10, 13, . . .

The sequence continues in the same way.
Circle the numbers that are **not** in the sequence.

22 28 33 40

4 A sequence has the first term 2020 and the term-to-term rule is 'add 11'.
Write the first five terms of the sequence.

_____, _____, _____, _____, _____

5 Write the next four terms in these linear sequences.

a 10, 7, 4, _____, _____, _____, _____

b –9, –7, –5, _____, _____, _____, _____

c 1095, 1060, 1025, _____, _____, _____, _____

Practice

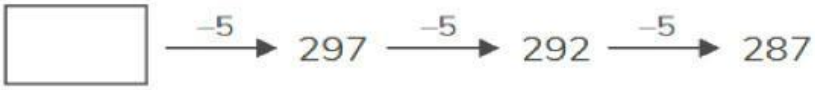
6 Here is part of a number sequence.
The numbers increase by 25 each time.

25, 50, 75, 100, 125, . . .

Circle all the numbers below that will be in the sequence.

355 750 835 900 995

8 Here is part of a number sequence.
The first number is missing.



Write the missing number.

9 A sequence has first term 1001 and last term 1041.
The term-to-term rule is 'add 5'.
Write down **all** the terms in the sequence.

_____

_____

10 Each number in this sequence is double the previous number.
Write the missing numbers.

_____, 3, 6, 12, 24, 48, _____

12 The numbers in this sequence increase by 10 each time.

4, 14, 24, . . .

The sequence continues in the same way.
Write two numbers from the sequence that make a total of 68.

_____ and _____

13 Describe each of the sequences below.

- Is the sequence linear or non-linear?
- What is the first term?
- What is the term-to-term rule?
- What are the next two terms in the sequence?

a 5, 9, 13, 17, . . .

b 3, 11, 18, 24, . . .

c 3, 6, 12, 24, . . .

المدرسة العصرية العالمية
MODERN INTERNATIONAL SCHOOL
تحت إشراف وزارة التربية والتعليم
(Under the supervision of Ministry of Education, Oman)

Worksheet 3 – MATH 1st Semester

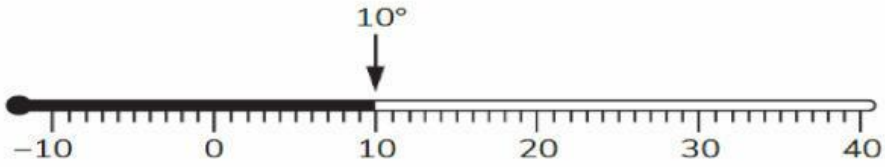
NAME:_____ **GRADE: 4 ____**

DATE: _____

Topic: More on negative numbers

Focus

1 Here is a thermometer. The arrow is pointing to 10 °C.



Draw an arrow on the thermometer pointing to −5 °C.

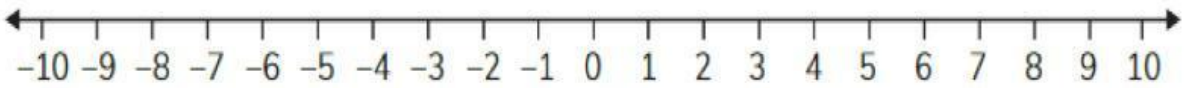
2 Here are some temperatures.

4 °C −3 °C 5 °C 0 °C −2 °C

a Which is the warmest temperature? _____

b Which is the coldest temperature? _____

3 Look at the number line.

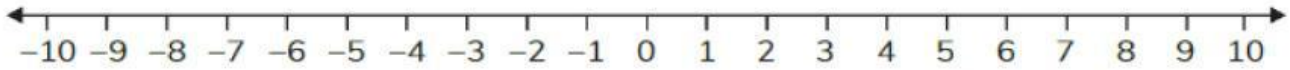


Write where you would land on the number line after these moves.

	start	count on	end		start	count back	end
a	−4	1	_____	b	6	6	_____

	start	count on	end		start	count back	end
c	−5	3	_____	d	0	9	_____

4 Circle the **larger** number in each pair.
Find the difference between the two numbers.
Use the number line to help you.



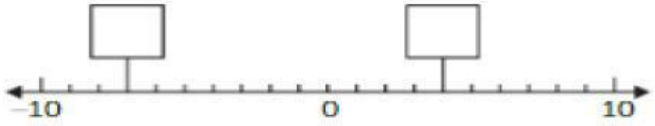
a −6 −2 Difference: _____

b −3 −1 Difference: _____

c 4 −4 Difference: _____

Practice

5 Here is part of a number line.
Write the missing numbers in the boxes.



6 The thermometer shows a temperature of −8 °C.

Draw arrows on the thermometer to point to these temperatures.

−4 °C 14 °C −1 °C

7 Write the missing numbers in these sequences.

a −12, −8, _____, 0, 4, 8, _____

b −15, _____, −5, 0, 5, _____, _____

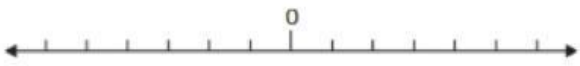
8 The temperature outside when Soraya arrived at school was −1 °C.
By lunchtime the temperature had risen by 8 °C.
What was the temperature at lunch time?

_____

Challenge

9 Put these numbers in order on the number line.

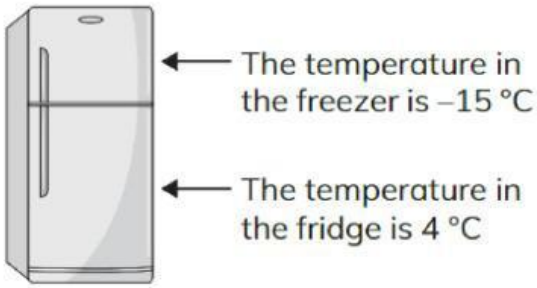
−1 1 −2 −3 −5



10 The temperature in Amsterdam is 2 °C.
The temperature in Helsinki is −7 °C.
How many degrees warmer is it in Amsterdam than in Helsinki?

_____

11 Here is a fridge freezer.



What is the difference in temperature between the fridge and the freezer?

_____

12 Here is part of a number line.
Write the missing numbers in the boxes.