

Aspire International School

Name

Class.....

Unit 1 revision

1) Write the first four terms of a sequence

with first term 1

and term-to-term rule 'add 11'

1, 12, 23, 34

2) A sequence starts at 40 and 9 is subtracted each time.

40, 31, 22, ...

what are the next two terms?

13, 4

What are the first two numbers in the sequence that are less than zero?

-5, -14

3) Sofia makes a number sequence.

The first term is 22 and the term-to-term rule is 'subtract 2'.

Sofia says, 'If I keep subtracting 2 from 22,

I will eventually reach 0.'

Is she correct? Explain your answer

Yes because 22 is a multiple of 2

4) Pierre starts counting at 88 and counts back in steps of 8.

88, 80, 72, 64, ...

Will the number 1 be in the sequence? How can you tell without counting back?

No

5) The numbers in this sequence increase by equal amounts each time.

write in the missing numbers.

1, 3, 5, 7.

- 6) Marcus writes a sequence of numbers.
 His rule is to add the same amount each time.
 Copy the sequence and write in the missing numbers

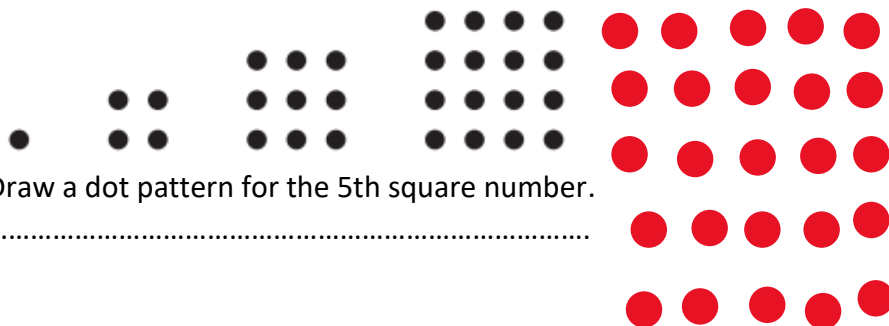
1,**6**.....**11**.....**16**....., 21 .

- 7) Write the name of the shaded numbers

x	1	2	3	4	5	6
1	1	2	3	4	5	6
2	2	4	6	8	10	12
3	3	6	9	12	15	18
4	4	8	12	16	20	24
5	5	10	15	20	25	30
6	6	12	18	24	30	36

Square numbers (number x it self)

- 8) These patterns of dots show the first four square numbers

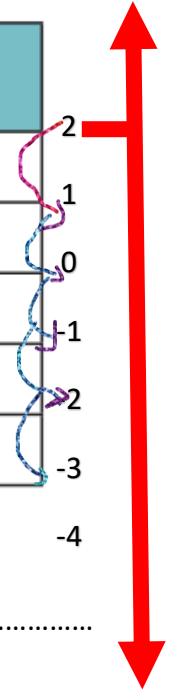


Draw a dot pattern for the 5th square number.

.....

9) Copy and complete the table

Temperature now	Rise or fall in temperature	New temperature
2 °C	A fall of 5 degrees	-3
-3 °C	A rise of 8 degrees	5
1 °C	A fall of 5 degrees	-4
-4 °C	A rise of 2 degrees	-2
6 °C	A fall of 6 degrees	0



10) What is the difference between -1 and 3 **4**

11) What is the difference between -6 and 6 **12**

12) What is the difference between -2 and -5 **3**

13)
 $2, 3, 5, \dots$

- a) What is the first term in this sequence **2**
- b) What is the term-to-term rule? **add 1,2,3 each time**
- c) Is it linear or nonlinear? **non linear**
- d) What is the next two terms..... **8 12**

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14) Which temperature is the coldest?

-10 °C 0 °C 1 °C -2 °C 10 °C

15) The temperature in a town one day was 5 °C.

The temperature dropped by 9 °C overnight.

What was the lowest night-time temperature?

..... **-4**

16) What temperature is 6 degrees **warmer than** -2 °C?(warmer go to the right or up)**4**

17) What temperature is 5 degrees less than -1 °C? **-6** (less than go to the left or backward)

18) What temperature is 3 degrees warmer than -4 °C? **-1**

Write = or < or > in the boxes to make these statements correct.

-2 < 2

-3 > -100

0 > -1

1 > -1

4566 < 6788

19) write the missing numbers

a) $28 \times 100 = \dots\dots\dots 2800 \dots$

b) $178 \times \dots 100 \dots\dots\dots = 17800$

c) $120 \times 1000 = \dots 120\,000 \dots\dots$

d) $16000 \div 1000 = 16$

- I. What is the place of the digit 9 in 984 562? **Hundred place**
- II. What is the place of the digit 6 in 984 562? **tens**
- III. What is the place of the digit 5 in 984 562? **Hundred**
- IV. What is the value of the digit 9 in 90 50 3? **90 000**
- V. What is the value of the digit 5 in 90 50 3? **500**
- VI. What is the value of the digit 3 in 590 50 3? **3**

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20) Decompose these numbers by copying and filling in the missing numbers.

a) $56789 = 50\ 000 + \dots + 6000 + \dots + 700 + \dots + 80 + \dots + 9$

b) $7839 = \dots + 7000 + \dots + 800 + \dots + 30 + \dots + 9$

21) Write the numbers in words

tho | *sh*
23|456

Twenty-three thousand four hundred fifty-six

M | *tho* | *sh*
4|567|992

Four million five hundred sixty-seven thousand nine hundred ninety-two

22) what temperature does the thermometer show ?



-3