

## Home Learning – Tuesday 5th May

**Maths CPG** 10mins to do and 10 mins check!

**Maths** - Maths No Prob' - Algebra Chapter 9 Review - Workbook page 62- 66

Ok, so review of algebra today, just the workbook to do, answers at the end as usual. Area and Perimeter tomorrow, some of you might prefer that!

**English 1hr** – OK so half an hour reading of your own reading, then you can write your letter in full on Google Docs and share with me should you wish; I would like to read them! If you would prefer to write it in your **best** handwriting, please do. Remember to sell yourself, use paragraphs for different topics. Remember the letter is to be persuasive, other people will want the same job so how will yours be different! I have read a lot of job application forms in the past; spelling is very important too! Remember the alternative on Oak Academy should you wish!

**Topic 30 Mins** – **Continue** with your bedroom plan from yesterday, add a key/labels or dimensions/measurements too if you have time!



## Maths Answers

2 wrote 10 consecutive whole numbers starting with  $b$ .

(a) What is the third number that he wrote? Write the number in terms of  $b$ .

$b + 2$

(b) What is the sixth number that he wrote? Write the number in terms of  $b$ .

$b + 5$

### Review 9

1 uses triangles and circles to form a sequence of patterns.



(a) Complete the table.

Pattern number	Number of triangles	Number of circles
1	1	3
2	2	4
3	3	5
7	7	9
16	16	18
$a$	$a$	$a + 2$

(b) Find the number of circles in Pattern 79.

81

3 has a spreadsheet programme that uses a rule to change the input number  $n$ . Find an algebraic expression for the output  $T$  in terms of  $n$ .

$n$	28	8	12	4
$T$	7	2	3	1

$T = \frac{n}{4}$

4 Evaluate the expression  $5n + 2$  for the given values of  $n$ .

$n$	$5n + 2$
1	7
2	12
3	17
6	32
55	277

- 5  $T$  stands for the  $n$ th number in this pattern:

1st	2nd	3rd	4th
3	7	11	15

Write a formula for  $T$  in terms of  $n$ .

$$T = 4n - 1$$

- 6 Find each value of  $k$ .

(a)  $5 + k = 20$

$$15$$

(b)  $k - 12 = 46$

$$58$$

(c)  $2k = 16$

$$8$$

(d)  $\frac{35}{k} = 7$

$$5$$

- 7 Complete the table using the formula:

$$R = 12 + 0.8(x - 14)$$

$x$	$R$
20	16.8
32	26.4
54	44
69	56

- 8 ABC is a scalene triangle. AB is  $x$  cm, BC is three times the length of AB and AC is 4 cm longer than AB.



Write an algebraic expression in terms of  $x$  to describe:

- (a) the length of BC

$$3x$$

- (b) the length of AC

$$x + 4$$

- (c) the perimeter of triangle ABC

$$5x + 4$$

- (d) Use the formula  $p = 5x + 4$  to calculate:

- (i)  $p$  when  $x = 5.5$

$$31.5$$

- (ii)  $x$  when  $p = 137$

$$26.6$$