YEAR 11 HOMEWORK – 2T

Complete the questions in each box. Make sure that you show all of your workings

1. Change 190 cm into metres.

2. $3 + 6 \times 5$

3. Solve $\frac{y}{2} = 12$

4. Here are four numbers.

-9 -2 2 9

Write one number in each box to make a correct calculation:

☐ + ☐ = 7

5. Here are the first four terms of a number sequence. Write the next 2

3, 8, 13, 18,…

6. There are 3 rods of length:

a +1,

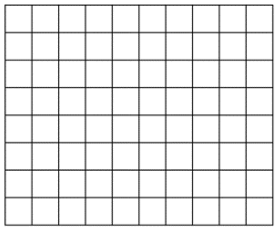
2a

4a + 1

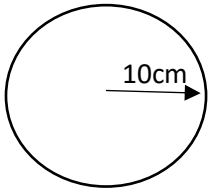
The total length of the 3 rods is *L* cm

Find a formula for L. Write it in its simplest form.

7. The length of a rectangle is twice as long as the width of the rectangle. The area of the rectangle is 18 units^2. Draw the rectangle on the grid.



8. Find the area using $A = \pi r^2$



9. Jake played a game 20 times. The stem and leaf diagram shows his scores

0	9	
1	2 3 3 4 5	Key 1 | 2 represents 12 points
2	5 6 6 6 6 7	
3	1 3 4 6 8	
4	0 2 9	

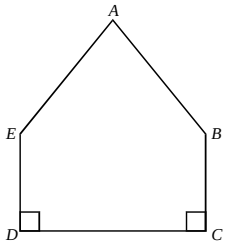
Find the median score

10. There are 30 children in a nursery school.
At least 1 adult is needed for every 11 children in the nursery.
Work out the least number of adults needed in the nursery.

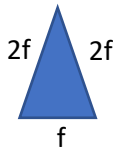
11. Simplify:
6k + 9k – 4k

12. Use the formula $a = 4b + 3c$ to work out a when $b = 2$ and $c = -5$

13. Name the 5 sided shape:



14. Find f if the perimeter is 70cm

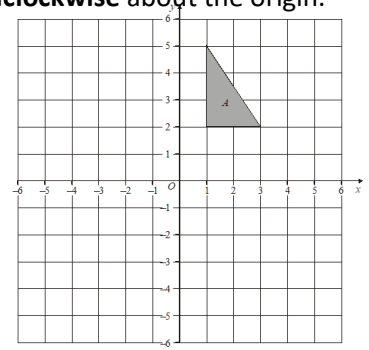


15. Complete this table of values for $y = 3x + 1$

x	–1	0	1	2	3
y					

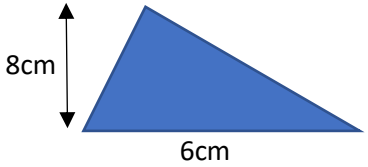
16. Bob drives at 40 km/h for 2 hours. How far does he drive?

17. Draw the new position of triangle A after a rotation of 90° **anticlockwise** about the origin.



18. A 4 pack of toilet roll costs £2.04
A 8 pack costs £4.00. Work out what one roll costs in each offer to determine which pack is better value.

19. Work out the area of the triangle



20. Change 16 out of 20 to a percentage

WWW	
EBI 1	
EBI 2	