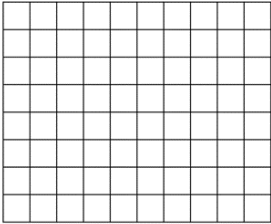
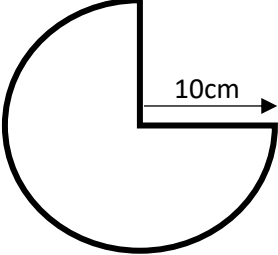


YEAR 11 HOMEWORK –25

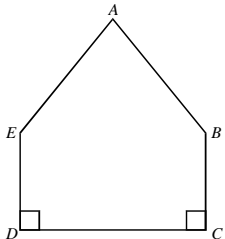
Complete the questions in each box. Make sure that you show all of your workings

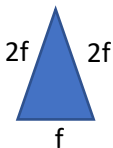
1. Change 251 cm into metres.	2. $2 - 7 \times 10$
3. Solve $\frac{y}{3} = 9.6$	4. Here are four numbers. -9 -2 2 9 Write one number in each box to make a correct calculation: <div><div></div> + <div></div> = -11</div>

5. Here are the first four terms of a number sequence. 2,5,11,23 The rule to continue the sequence is “multiply the previous term by 2 and then add 1”. Work out the 7th term of this sequence	6. There are 3 rods of length: 2a-1, 2a and 2a + 4 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 three times as long as the width of the rectangle. The area of the rectangle is 27units^2 . Draw the rectangle on the grid. 	8. Find the Area: 										
9. Jake played a game 20 times. The stem and leaf diagram shows his scores <table><tr><td>0</td><td>9</td></tr><tr><td>1</td><td>2 3 3 4 5</td></tr><tr><td>2</td><td>5 6 6 6 6 7</td></tr><tr><td>3</td><td>1 3 4 6 8</td></tr><tr><td>4</td><td>0 2 9</td></tr></table> <div>Key 1 2 represents 12 points</div> Find the median score	0	9	1	2 3 3 4 5	2	5 6 6 6 6 7	3	1 3 4 6 8	4	0 2 9	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.
0	9										
1	2 3 3 4 5										
2	5 6 6 6 6 7										
3	1 3 4 6 8										
4	0 2 9										

11. Simplify:
 $6k + 9k - 4k - 2p + 5p$

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

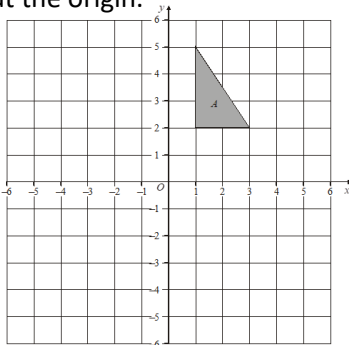
13. Name the 5 side shape


14. Find f if the perimeter is 70cm


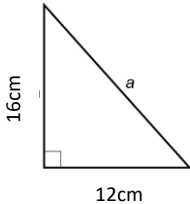
15. Complete this table of values for $y = 3x + 1$

x	-1	0	1	2	3
y					

16. Factorise:
 $18p + 12$

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


18. A pack of 66 rulers costs £2.52. In a different shop, a pack of 33 rulers costs £1.65 - Which pack is better value?

19. Use Pythagoras theorem to find the value of a


20. The population of an island increases by 8 percent from 350. Calculate the new population

WWW	
EBI 1	
EBI 2	