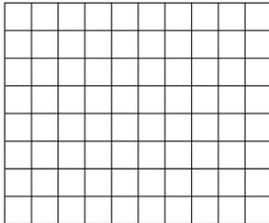
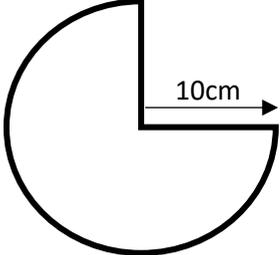


YEAR 11 HOMEWORK –25

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

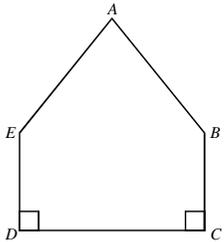
<p>1. Change 251 cm into metres.</p>	<p>2. $2 - 7 \times 10$</p>
<p>3. Solve $\frac{y}{3} = 9.6$</p>	<p>4. Here are four numbers. -9 -2 2 9</p> <p>Write one number in each box to make a correct calculation:</p> <div style="text-align: center; margin-top: 20px;"> + = -11 </div>

<p>5. Here are the first four terms of a number sequence.</p> <p>2,5,11,23</p> <p>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</p>	<p>6. There are 3 rods of length: 2a-1, 2a and 2a + 4</p> <p>The total length of the 3 rods is L cm</p> <p>Find a formula for L. Write it in its simplest form.</p>										
<p>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.</p> <div style="text-align: center; margin-top: 10px;">  </div>	<p>8. Find the Area:</p> <div style="text-align: center; margin-top: 10px;">  </div>										
<p>9. Jake played a game 20 times. The stem and leaf diagram shows his scores</p> <table style="margin-left: 20px; border-collapse: collapse;"> <tr> <td style="border-right: 1px solid black; padding: 2px 5px;">0</td> <td style="padding: 2px 5px;">9</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 2px 5px;">1</td> <td style="padding: 2px 5px;">2 3 3 4 5</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 2px 5px;">2</td> <td style="padding: 2px 5px;">5 6 6 6 6 7</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 2px 5px;">3</td> <td style="padding: 2px 5px;">1 3 4 6 8</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 2px 5px;">4</td> <td style="padding: 2px 5px;">0 2 9</td> </tr> </table> <div style="margin-left: 100px; border: 1px solid black; padding: 2px; font-size: 8px; margin-top: 5px;"> <p>Key 1 2 represents 12 points</p> </div> <p>Find the median score</p>	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	<p>10. There are 30 children in a nursery school.</p> <p>At least 1 adult is needed for every 11 children in the nursery.</p> <p>Work out the least number of adults needed in the nursery.</p>
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										

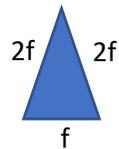
11. Simplify:
 $6k + 9k - 4k - 2p + 5p$

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



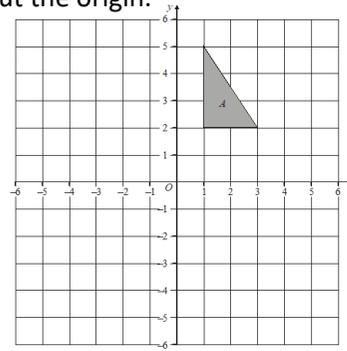
15. Complete this table of values for $y = 3x + 1$

x	-1	0	1	2	3
y					

16. Factorise:

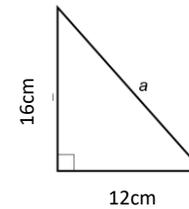
$$18p + 12$$

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	