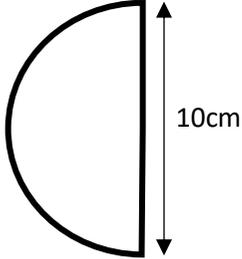


YEAR 11 HOMEWORK –35

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

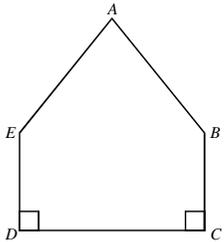
<p>1. Change 86 cm into metres.</p>	<p>2. <math>8 \div 2 + 4</math></p>
<p>3. Solve <math>2p + 3 = 15</math></p>	<p>4. Here are four numbers. -5   -3   3   5</p> <p>Write one number in each box to make a correct calculation:</p> <p><input type="text"/> + <input type="text"/> = 2</p>

<p>5. Write down the next 2 terms: 1, 2, 4, 8, 16, ...</p>	<p>6. A theatre sells 40 tickets at £10 each and n tickets at £5 each. Write down a formula for the total cost P of the tickets</p>
<p>7. Write down the number of lines of symmetry:</p> 	<p>8. Find the Area:</p> 
<p>9. Raju records the mass in kg of 16 newborn babies. Draw a stem and leaf diagram for his results: 3.1, 1.2, 2.5, 4.2, 3.6, 2.3, 3.7, 1.8, 2.4, 3.7, 3.1, 3.9, 1.5, 4.4, 2.0, 3.2</p>	<p>10. There are 30 children in a nursery school. At least 1 adult is needed for every 7 children in the nursery. Work out the least number of adults needed in the nursery.</p>

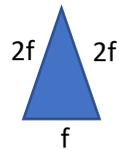
11. Simplify:  
 $8xy - 2xy$

12. Use the formula  $P = b^2 - 4ac$  to work out  $P$  when  $a=2$   $b = 6$  and  $c = -4$

13. Label with an X a right angle



14. Find  $f$  if the perimeter is 35cm



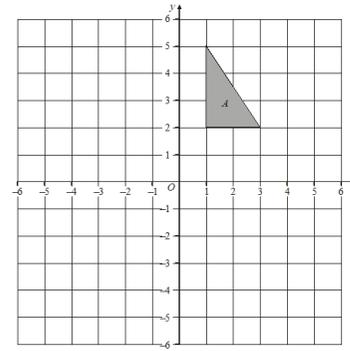
15. Complete this table of values for  $y = 4x + 1$

$x$	-1	0	1	2	3
$y$					

16. Factorise:

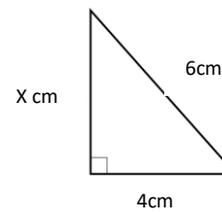
$$p^2 + 5p$$

17. Reflect the triangle in the x axis



18. A pack of 77 pencils costs £1.47  
In a different shop, a pack of 88 pencils costs £1.52. Which pack is better value?

19. Use Pythagoras theorem to find the value of  $a$



20. The population of an island increases by 12 percent from 450. Calculate the new population

WWW	
EBI 1	
EBI 2	