YEAR 11 HOMEWORK – 2R Complete the questions in each box. Ma workings	ke sure that you show all of your	5. There are 30 school. At least 1 adult 11 children in t Work out the I needed in the
<ol> <li>There are 3 rods of length:</li> <li>a - 1, 3a and a + 2</li> <li>The total length of the 3 rods is <i>L</i> cm</li> <li>Find a formula for L. Write it in its simplest form.</li> </ol>	2. The length of a rectangle is 3x as long as the width of the rectangle. The area of the rectangle is 27units <sup>2</sup> . Draw the rectangle on the grid.	7. Write 120 a prime factors.
3. 2 + 3 x 4 + 5	4. Jake played a game 20 times. The stem and leaf diagram shows his scores         0       9         1       2       3       4       5         2       5       6       6       7         3       1       3       4       6       8         4       0       2       9       Find median and range	9. $ABCD$ is a $EDC$ is a straight line Find angle FE

There are 30 children in a nursery hool. least 1 adult is needed for every children in the nursery. ork out the least number of adults eded in the nursery.	6. An approximate rule for converting degrees Fahrenheit into degrees Centigrade is: $C = \frac{F - 30}{2}$ Use this rule to convert 36°F into °C.
Write 120 as a product of its ime factors.	8. The 4 angles of a quadrilateral are in the ratio 2 : 5 : 6 : 7. Find the smallest angle in the quadrilateral
ABCD is a parallelogram.	<b>10</b> . Each circle has centre <i>O</i> . Calculate
DC is a straight line.	the shaded area.
is the point on AD so that BFE	You must show all your working.
a straight line.	
nd angle FBC E	
$F$ $35^{\circ}$ $D$ $D$ $B$ $75^{\circ}$ $C$	dem 3 cm 3 cm 0

11. The table shows the heights of		12.		
150 students:		Solve the equation $x^2 = 16$		
Height (cm)	Frequency			
120 < h ≤ 130	3			
130 < h ≤ 140	19			
140 < h ≤ 150	36			
150 < h ≤ 160	57			
160 < h ≤ 170	22			
170 < h ≤ 180	11			
180 < h ≤ 190	2			
a) Write the moda	a) Write the modal class			
b) Estimate the mean height				
,	0			
13 Solve the inequality		14 The table shows boys and girls		
13. Solve the mequality		info from v8 and 9		
5x + 5 > 25				VQ
		Pove	52	19
		Girls	52	40
		Giris	68	52
		Find the probability that a student		
		chosen at random is a girl		
15. A machine fills	600 bottles in 4	16. Tim drives at an average of 60km		
minutes. How long does it take to fill		per hour for 2 hrs 45 minutes. Work		
40 bottles? Give your answer in		out how many kilometres he drives		
seconds				



