YEAR 11 HOMEWORK – 6R

1. Round 2.56 to 1 significant figure

3. (-5)³

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

e sure that you show all of your	5. Find the nth term: 7,11,15,19,	6. A hotel has 120 rooms. It takes 6 cleaners 4 hours to clean all of the rooms. How many cleaners would be needed to clean all of the rooms in 3 hours?
2. Solve 6b - 3 = 5b + 4		
	7. Write 98 as a product of prime factors	8. At a football match, the ratio of male supporters to female is 11:3. There are 4257 males supporters. How many female supporters?
4. Here are four numbers.-7 -4 4 7	9. The test scores of 20 students are shown. Draw a stem and leaf diagram to find the range, and median	10. Use sine rule to find x
Write one number in each box to make a correct + = 0	20, 15, 38, 18, 41, 41, 49, 16, 23, 28, 32, 17, 32, 22, 27, 16, 20, 38, 45, 25, 16	35° 60° 10 cm

11. The depth of water in a lake is		12.							
recorded each day for 100 days		Solve the equation $x^2 - 5x - 6 = 0$							
Depth (m)	Frequency								
10 < d ≤ 10.35	8								
10.5 < d ≤ 11	49								
11 < d ≤ 11.5	38								
11.5 < d ≤ 12	4								
12 < d ≤ 12.5	1								
a) Write the modal class									
b) Estimate the me	ean depth								
13. Solve the inequality		14. A dice is thrown and a coin is							
		tossed. Complete the table to show							
6x - 2 > 10		the possible outcomes							
			1	2	3	4	5	6	
		Н							
		Find	the n	ohah	ility c	of a he	ead a	nd an	
		even number							
		even number							
15 One sack of rice will food 100		16. Calculate the speed of an object							
15. One sack of fice will feed 100		that moves 504km in 10 hours 20							
deve will the each of rise for 250		min							
days will the sack of rice fed 250		min							
people?									



