

Name _____

Methods 2 Higher basic skills Sheet 5

Section A: Number		Section B: Algebra		Section C: Geometry	
Q1 (N.4) Write 0.00561 to 1.s.f.		Q11 (A.3) Solve $\frac{12}{x} = 1\frac{2}{5}$		Q21(G.2) What is the angle q and state the reason Alternate / Corresponding/ Interior ?	
Q2 (N.5) List the prime numbers between 10 and 20		Q12 (A.2d) factorise $4a^2 - 9b^2$ completely			
Q3 (N.7) Decrease 724Kg by 2.5%		Q13 (A.2c) Factorise $x^2 - 10x - 24$		Q22 (G.15a) Find the size of angle b To 3.s.f	
Q4(N.11) In a club of 100 members, 62 are male, 35 are juniors, 33 are neither male or a junior. How many Juniors were Girls?		Q14 (A.3) Solve $\frac{3x-2}{5} - \frac{x+1}{3} = 1$			
Q5 (N.5) Find one way of writing a square number less than 50 as the sum of two 2 digit prime numbers.		Q15 (A.4b) Write $x^2 + 5x - 4$ in the form $(x + a)^2 - b$		Q23 (G.7) Find the value of the angle F. If O is the centre of the circle.	
Q6 (G.5) What is the sum of the interior angles on a regular heptagon?		Q16 (A.4c) solve $2x^2 - 5x - 4 = 0$ to the nearest 1.d.p			
Q7 (N.6) if $A=3^3 \times 5^3$ and $B= 2^2 \times 3^2 \times 5^2$ what is LCM of A & B		Q17 (A.5) write down the first 3 terms term of the sequence $3n^2 - 2n + 10$		Q24 (G.15b) Find the length of the line EG to 3 s.f.	
Q8 (N9) If a woman invests £5000 in a bank account that gives 3% interest per annum, how many years will it take before she has over £6000 in the account?		Q18(A.2e) Simplify $\frac{x^2 + x - 12}{2x - 6}$			
Q9 (N10) Use a calculator to find the value of $\frac{\sqrt{9.2^2 + 4}}{3.4 - 1.09}$ to 2.s.f		Q19 (G5) What is the angle A?			
Q10 (G20) Calculate the surface area of a Cylinder with Height 5 cm and radius 3 cm, leave your answer in terms of π		Q20 (A.6) work out the nth term of the sequence 5, 9, 15, 23, 33, ...		Q25 (G12) OA = a and OB = b and AN:NB is in the ratio 2:3 and M is the midpoint of OB Find MN in terms of a and b	
Total (A)		Total (B)		Total (C)	
Test Total (A+B+C)		R (0-9)		Y (10-19)	G (20-25)