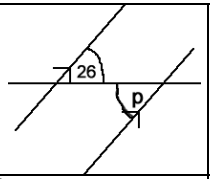
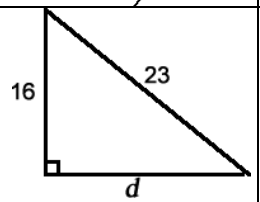
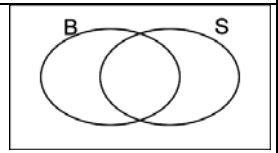
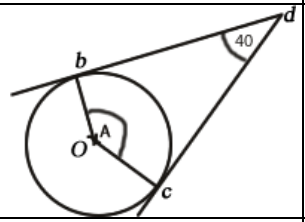
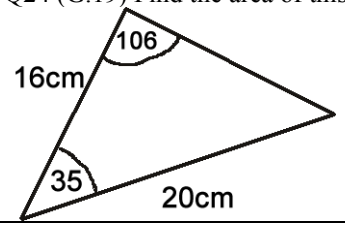
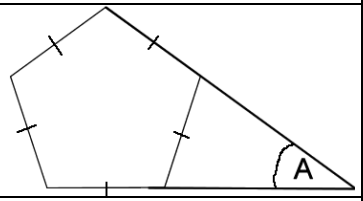
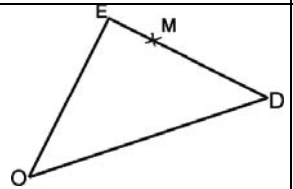
Name _____ **Methods 2 Higher basic skills Sheet 4**

Section A: Number		Section B: Algebra		Section C: Geometry	
Q1 (N.5) Write 56 as a product of primes in index form.		Q11 (A.3) Solve $\frac{x}{7}=\frac{4}{5}$		Q21(G.2) What is the angle p and state the reason Alternate / Corresponding/ Interior ? 	
Q2 (N.5) Find the LCM of 18 & 12		Q12 (A.2a) factorise $3a^2 + 12a$ completely			
Q3 (N.7) Increase £97.50 by 4.5%		Q13 (A2c) Factorise $x^2 - 17x + 30$		Q22 (G.14) Find the length d To 3.s.f 	
Q4(N.11) In a class of 40, 23 have a brother, 31 have a sister 3 have neither brother or sister. Fill in the Venn diagram to represent this info. 		Q14 (A.3) Solve $\frac{5x-4}{3}-\frac{3x+2}{2}=31$			
Q5 (N.5) Write 40 as the sum of 2 prime numbers in at least 2 different ways		Q15 (A.4b) Write $x^2 - 4x + 9$ in the form $(x - a)^2 + b$		Q23 (G.7) Find the value of the angle A. If bd and cd are tangents to the circle and O is the centre of the circle 	
Q6 (G.5) What is the exterior angle in a regular decagon?		Q16 (A.4a) solve $x^2 - 6x - 40 = 0$ by factorising			
Q7 (N.6) if $A=2^3 \times 5 \times 7^2$ and $B = 2^2 \times 3^2 \times 7$ what is HCF of A & B		Q17 (A.5) write down the 10th term of the sequence $x^2 + 3x$		Q24 (G.19) Find the area of this triangle to 1d.p 	
Q8 (N9) If a tree has a height of 73cm and it increases by 2.5% each year how high will it be after 5 years?		Q18(A.2e) Simplify $\frac{x^2+8x+12}{x+2}$			
Q9 (G17)Find the Area of a circle with Diameter 18 cm and leave your answer in terms of π		Q19 (G5) What is the angle A? 		Q25 (G12) OE = e and OD = d and DM:ME is in the ratio 3:1 Find OM in terms of e and d 	
Q10 (G20) Calculate the Volume of a Cylinder with Height 12cm and diameter 8cm, leave your answer in terms of π		Q20 (A.6) work out the nth term of the sequence 20, 17, 14, 11, 8, …			
Total (A)		Total (B)		Total (C)	
Test Total (A+B+C)		R (0-9)	Y (10-19)	G (20-25)	