

#	Question	Answer	Marks
1	Expand $4(x + 6)$		1
2	Expand $5x(x - 3)$		1
3	Expand $3x^2(10 - y)$		1
4	Expand and simplify $4(x + 6) + 3x$		2
5	Expand and simplify $10x - 3(x + 7)$		2
6	Expand and simplify $2(x + 5) + 3(2x + 7)$		2
7	Expand and simplify $(x + 3)(x + 7)$		2
8	Expand and simplify $(m - 3)(2m + 6)$		2
9	Expand and simplify $(2p - 2)(4 - 3p)$		2
10	Expand and simplify $(x - 5)^2$		2
11	Expand and simplify $(3x + 4)^2$		2
12	Simply $\frac{(w + 2)}{4w + 8}$		2
13	Solve $3x - 4 = 5$		2
14	Solve $\frac{w}{3} - 4 = 11$		2
15	Simplify $(p^2)^6$		1
16	Simplify $6p^5 \times 4p^3$		2
17	Simplify $12n^9 \div 3n^4$		2
18	If $a = 3$ and $b = 4$, find the value of: $5a + 4b + 1$		2
19	If $x = 15$ and $y = 10$, find the value of: $\frac{2x + 3y}{12}$		2

#	Question	Answer	Marks
20	If $\pi = 3, r = 2$ and $h = 5$, find the value of: $A = 2\pi r^2 + 2\pi rh$	$A =$	3
21	If $a = 7, b = 9$ and $h = 6$, find the value of $A = \frac{a + b}{2} \times h$	$d =$	2
22	Simplify $2x^3 + x^3 - 4x^3 + 5x^3$		1
23	Simplify $(4x^6 y^3)^2$		2
24	Simplify $5p^6 \times 4p^3$		1
25	Simplify $\frac{28x^2}{7x^5}$		1
26	Solve $4x - 5 > 15$	$x >$	2
27	Solve $4x + 3 \geq 3x - 7$	$x \geq$	2
28	Solve $8m + 3 \leq 4m - 1$	$x \leq$	2
29	Write all the integer values that x can take $-3 \leq x < 1$		1
30	Write all the integer values x can take $-2 \leq x \leq 2.2$		1
31	Write all the integer values x can take $-3 > x > -7.5$		1
32	Find the n th term of this sequence $11, 16, 21, 26 \dots$		2
33	Find the 50 th term of this sequence $11, 16, 21, 26 \dots$		1
34	Find the n th term of this sequence $31, 27, 23, 19 \dots$		2
35	Find the 100 th term of this sequence $31, 27, 23, 19 \dots$		1
36	Solve $3a + 10 = a + 20$	$a =$	2
37	Solve $7(x - 3) = 5x + 3$	$x =$	2
38	Solve $6 - 3y = -29 + 2y$	$y =$	2

#	Question	Answer	Marks
39	Make a the subject of the formula $b = 2a + 3$		1
40	Make x the subject of the formula $y = \frac{2x + 3}{x}$		2
41	Make r the subject of the formula $A = 2\pi r^2$		2
42	Make d the subject of the formula $V = 2\pi \sqrt{\frac{3}{d}}$		2
43	Expand $(x + 1)(x + 2)(x + 3)$		3
44	Solve $x - 7 \leq -4$		1
45	Factorise $4x + 20$		1
46	Factorise $6x^2 + x$		1
47	Factorise fully $3x^2 + 24x$		2
48	Factorise fully $4x^2y + 8x^2y$		2
49	Factorise fully $4x^2y^2 + 4xy^3$		2
50	Factorise $x^2 + 8x + 12$		2
51	Factorise $x^2 + 3x - 18$		2
52	Factorise $2x^2 + 9x + 10$		2
53	Factorise $2x^2 + 2x - 12$		2
54	Solve the equations simultaneously. $2x + 3y = 23$ $x + y = 9$		3