

Question 1: Expand the following brackets

(a) 5(y + 3)	(b) 4(a + 2)	(c) 8(w + 10)	(d) 3(x - 7)
(e) 9(s – 1)	(f) 2(8 – t)	(g) 7(4 + h)	(h) 10(a + 2b + 3c)
(i) 4(3y + 2)	(j) 5(2p - 1)	(k) 3(7a + 2)	(l) 9(2x – 5)
(m) 5(4 + 3t)	(n) 7(9 – 2c)	(o) 8(3w + 1)	(p) 9(1 – 4p)
(q) 11(2k – 5)	(r) 20(6a + 5c)	(s) 3(15w - 7)	(t) 3(9 – 2a)

Question 2: Expand the following brackets

(a) –2(w + 5)	(b) -3(c + 7)	(c) -8(c + 7)	(d) -10(y - 2)
(e) -7(g-3)	(f) $-4(2w + 3)$	(g) -9(3w - 5)	(h) -9(5x - 1)
(i) −5(6 − c)	(j) −6(4 + 3m)	(k) -2(1 + 9c)	(l) -5(8a - 7w)

Question 3: Expand the following brackets

(a) a(c + 2)	(b) c(d – 3)	(c) a(b + c)	(d) w(8 – y)
(e) c(5 + a)	(f) w(a - 9)	(g) y(s + t)	(h) 2a(c – 3)
(i) 5x(y + 8)	(j) 3a(2c + 9)	(k) 6g(2c - 1)	(l) 9k(2 + d)
(m) 5(2f + 9w)	(n) 3y(5p + 2)	(o) 2s(t + 1)	(p) -4a(8x - 3)

Question 1: Facto	orise the following ex	pressions						
(a) 4x + 6	(b) 15x + 20	(c) 9y - 12	(d) 5x + 15					
(e) 6x – 3	(f) 4x + 8	(g) 5y – 25	(h) 8w + 24					
(i) 10y + 15	(j) 14w + 21	(k) 20y - 30	(l) 27x + 18					
(m) 6 – 4x	(n) 9 + 12y	(o) 45 + 60x	(p) 16y – 32					
(q) 22a + 55	(r) 100 - 40y	(s) 6x + 9y	(t) 4w – 2a					
(u) 25y - 35z	(v) $8x^2 + 20$	(w) 30y ³ - 15	(x) 42y + 28x - 56c					
Question 2: Factori	se the following expr	ressions						
(a) $x^2 + 7x$	(b) x ² - 3x	(c) $y^2 + y$	(d) $w^2 + 9w$					
(e) $x^2 - 7x$	(f) $4w^2 + 10w$	(g) $6x^2 - 8x$	(h) 9y ² - 6y					
(i) $10c + c^2$	(j) 5g – g ²	(k) 14x ² +35x	(l) 40x ² -50x					
(m) 12x ² + 18x	(n) 24x ² -18x	(o) 45y ² + 60y	(p) $7w^2 + 2w$					
Question 1: Describe the rule for each sequence below and find the next three terms								
(a) 3, 5, 7, 9,	(b) 5, 10, 15, 2	0, (c) 1, 4, 7	7, 10,					
(d) 20, 19, 18, 17,	. (e) 5, 10, 20, 4	0, (f) 10, 14	l, 18, 22,					
(g) 1, 6, 11, 16,	(h) 2, 4, 8, 16,	(i) 100, 8	0, 60, 40,					

(j) 5, 12, 19, 26, ... (k) 1, 10, 100, 1000, ... (l) 64, 32, 16, 8, ...

(m) 55, 66, 77, 88,	(n) 32, 41, 50, 59,	(o) 15, 9, 3, -3,
(p) 2, 2.5, 3, 3.5,	(q) 8, 22, 36, 50,	(r) 1, 3, 9, 27,

×	1	3	10	12	4	×			×			
2												
5												
3												
6												
7												

Try filling out the multiplication grid, then make some of your own using the numbers 1 to 12

X			×			×	,			