

Name	
Form	
Teacher	

Maths

Homework Booklet

Year 8 Spring 1

Set P,1,2,3

Topic	Score achieved	Sparx %
1. Expanding brackets	/20	%
2. Factorising	/24	%
3. Expand and simplify	/9	%
4. Solving equations with brackets	/8	%
5. Solving equations with unknowns on both sides	/12	%
6. Solving Inequalities	/10	%



Week 1

(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) $3(9 - 2a)$

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Week 2

Question 1: Factorise the following expressions

(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) $27x + 18$

Question 2: Factorise the following expressions

(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) $40x^2 - 50x$

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Week 3

(a) $5(y + 3) + 2(y + 7)$

(b) $6(2w + 5) + 9(w + 2)$

(c) $3(y - 2) + 4(2y + 5)$

(d) $7(2g + 3) - 5(g + 2)$

(e) $6(x - 2) - 4(x - 8)$

(f) $2(3y - 8) - 5(2y - 1)$

(g) $8c(8 - 3a) + 3(4 - c)$

(h) $5y(3y + z) - 2y(4y - 3z)$

(i) $4c(3c - c^2) - 2c^2(4 - 5c)$

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1) $2(x + 3) = 10$

2) $5(x - 1) = 20$

3) $3(x + 4) = 21$

4) $2(3x + 1) = 14$

5) $4(3 + 2x) = 36$

6) $7(2x - 3) = 35$

7) $8(4 - x) = 16$

8) $6(5x - 3) = 42$

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Week 5

Question 1: Solve the following equations

(a) $4x + 1 = 2x + 7$

(b) $5x + 4 = 3x + 16$

(c) $2x + 8 = x + 12$

(d) $7x + 1 = 2x + 46$

(e) $6x - 3 = 2x + 13$

(f) $9x - 10 = 7x + 24$

Question 2: Solve the following equations

(a) $3x + 3 = x + 8$

(b) $9x + 10 = 7x + 39$

(c) $3x + 1 = 7x - 17$

(d) $x + 4 = 13 - x$

(e) $16x + 3 = 6x + 24$

(f) $9x + 12 = 6x + 14$

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Week 6

(a) $5(x - 3) \geq 40$

(b) $6(x + 2) < 42$

(c) $2(5x + 1) \leq 36$

(d) $4(x - 2) < 18$

(e) $2(2x - 9) \geq 22$

(f) $3(2x + 7) \leq 9$

(a) $4x + 3 > 2x + 11$

(b) $x + 1 \geq 3x - 18$

(c) $13x - 12 < 3x + 13$

(d) $7x - 5 \geq 3x + 11$

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Week 7

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