| Name |  |
|------|--|
| Form |  |
| Teacher |  |

# Maths

# Homework Booklet

# Year 8 Spring 1

# Set 4,5

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

(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) $9(2x - 5)$

Sparx – Homework Answers

(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) $27x + 18$

Sparx – Homework Answers

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

Sparx – Homework Answers

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

Sparx – Homework Answers

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

Sparx – Homework Answers

Question 1: Solve each of the inequalities below

(a) $x + 4 > 9$     (b) $x - 3 < 2$     (c) $2x \leq 14$     (d) $8x < 16$

(e) $5x \geq 15$     (f) $\dfrac{x}{3} > 4$     (g) $\dfrac{x}{5} \leq 2$     (h) $x + 6 \geq 4$

Question 2: Solve each of the inequalities below

(a) $2x + 1 \leq 9$     (b) $3x - 5 > 16$     (c) $4x + 8 < 32$     (d) $5x - 2 \geq 68$

Sparx – Homework Answers

Sparx – Homework Answers