S4 National 4 Homework   Week 12

Monday

Solve the following:

1. $3(x + 4) = 2(x + 8)$

2. $2(2m + 1) = 2(m + 5)$

3. $3(y - 1) = 2(y - 6)$

4. $5(a - 1) = 2(a + 7)$

Tuesday

Expand the brackets and simplify:

1. $(2a + 3)(a - 5)$

2. $(3x + 5)(2x - 7)$

3. $(x + 5)(x^2 + 3x + 6)$

4. $(2a + 3)(a^2 + 7a - 1)$

Thursday

Evaluate:

1. $\frac{3}{4} + \frac{4}{5}$

2. $\frac{6}{7} - \frac{3}{4}$

3. $\frac{12}{7} \times \frac{35}{18}$

4. $1\frac{3}{4} \times 2\frac{2}{5}$

Extension

Fully factorise:

1. $x^2 + 7x + 10$

2. $x^2 + 8x + 15$

3. $x^2 + x - 12$

4. $x^2 - 5x - 14$