**Investigations – Algebra (by Livia Mitson)**

**Task 1:**

Here is some algebra:

$$y=8$$

From this, you could also say:

$y+3=11 $ or $2y=16$.

Write 5 true algebra sentences based on y = 6 using:

Addition, subtraction, multiplication, division.

Harder:

Write 5 true algebra sentences based on y= 6 using:

Negative numbers, decimals, fractions, brackets.

**Task 2:**

Here are three expressions.

15n + 20 34n – 15 4n2 + 16

Write down at least 5 ways to make one of the expressions using:

Easier: addition and subtraction

Harder: addition, subtraction, multiplication and division

Star: addition, subtraction, multiplication, division and brackets.

There are bonus points for creativity.

Example:

4n + 11n + 20 = 15n + 20