## Dr Oliver Mathematics Proportion: Part 1

1. When t = 2, N = 300.

Gail thinks that N is directly proportional to the square of t. She finds a formula for N in terms of t.

(a) Work out the value of N when t = 4 using Gail's formula.

Megan thinks that Gail is wrong.

She thinks that the formula

$$N = 75 \times 2^t$$

should be used.

When t = 6, N = 4800.

(b) Showing your working clearly, find out which formula fits these values. (2)

(4)

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