National 5 Final Revision	Applications
Statistical Skills	Working with Linear Models
Average Allocation	4 Marks

- 1a. C = 5S + 20
- 1b. Calories = 5 x 28 + 20 = 160.
- 2a. $2C = 9S + 12 \text{ or } C = \frac{9}{2}S + 6$
- 2b. Calories = $\frac{9}{2} \times 32 + 6 = 150$.
- 3a. 7C = M + 8
- 3b. For 2 hours, M = 120.

So 7C = $120 + 8 = 128 \implies C = 18.3$

Approximately 18 chapters can be read in 2 hours.

- 4a. 3C = M 20
- 4b. For 3 hours, M = 180.

So $3C = 180 - 20 = 160 \implies C = 53.3$

Approximately 53 chapters can be read in 3 hours.