## Workout

Question 1

| (a) w =2      | (b) c = 8   | (c) a = 7    |  |
|---------------|-------------|--------------|--|
| (d) x = 9     | (e) x = 9   | (f) $w = 4$  |  |
| (g) x = 9     | (h) w = 12  | (i) x = 28   |  |
| (j) y = 6     | (k) x = 30  | (I) x = 17   |  |
| (m) x = 16    | (n) m = 48  | (o) w = 50   |  |
| (p) x = 50    | (q) y = 5   | (r) x = 5.5  |  |
| (s) b = -2    | (t) x = 4.5 | (u) y = 2.5  |  |
| (v) g = 3.7   | (w) a = 4   | (x) v = -8   |  |
| (y) w = 10.8  | (z) y = 4.8 |              |  |
| Question 2    |             |              |  |
| (a) x = 3     | (b) w = 5   | (c) y = 4    |  |
| (d) x = 3     | (e) c = 10  | (f) m = 3    |  |
| (g) w = 11    | (h) p = 4   | (i) I = 8    |  |
| (j) a = 6     | (k) x = 12  | (I) $w = 0$  |  |
| (m) x = 4     | (n) w = 13  | (o) x = 12   |  |
| (p) c = 20    | (q) x = 60  | (r) n = 81   |  |
| (s) x = 84    | (t) c = 96  | (u) x = 225  |  |
| Question 3    |             |              |  |
| (a) m = 3.5   | (b) w = 4.8 | (c) x = 0.5  |  |
| (d) $w = 1.6$ | (e) x = 3.5 | (f) x = -2   |  |
| (g) w = -3    | (h) w = 1.5 | (i) c = -7   |  |
| (j) x = -15   | (k) w = -10 | (l) m = -64  |  |
| (m) x = 24    | (n) m = 36  | (o) x = -12  |  |
| Question 4    |             |              |  |
| (a) x = 17    | (b) x = 35  | (c) m = 23   |  |
| (d) x = 9     | (e) x = 50  | (f) $x = 16$ |  |
| (g) x = 35    | (h) x = 6   | (i) x = 40   |  |

| (j) m = 7                               | (k) x = 8     | (I) x = 15   |                   |  |
|---|---------------|--------------|-------------------|--|
| Question 5                              |               |              |                   |  |
| (a) y = 11                              | (b) x = 8     | (c) x = 3    |                   |  |
| (d) m = 6                               | (e) x = 6     | (f) x = -2   |                   |  |
| (g) a = 4                               | (h) f = 3.5   | (i) g = 1.75 | 5                 |  |
| Apply                                   |               |              |                   |  |
| Question 1) $2x =$                      | 6, $3x = 9$ , | 4x = 12, x+1 | = 4, x+2 = 5 etc. |  |
| Question 2) (a) ×                       | x + 3 = 19    | (b) x = 16   |                   |  |
| Question 3) (a) 3                       | 8n = 48       | (b) n = 16   |                   |  |
| Question 4) (a) 7                       | 'n + 3 = 45   | (b) n = 6    |                   |  |
| Question 5) (a) 4                       | 1x + 30 = 150 | (b) x = 30   | (c) 45 metres     |  |
| Question 6) (a) 3                       | 3x + 63 = 180 | (b) x = 39   |                   |  |
| Question 7) a = 6, b = 8, c = 7, d = 10 |               |              |                   |  |