



| Q  | Answer                                                                           | Marks |
|----|----------------------------------------------------------------------------------|-------|
| 1  | $w = 28$                                                                         | 2     |
| 2  | <b>a)</b> $x = 5$ <b>b)</b> $x = -2$ <b>c)</b> $x = -3$                          | 3     |
| 3  | $x = 9$                                                                          | 3     |
| 4  | $x = -2$                                                                         | 3     |
| 5  | $x = 8$                                                                          | 3     |
| 6  | No, Dan got 19 sweets                                                            | 3     |
| 7  | <b>a)</b> $x = 12$ <b>b)</b> $x = 14$                                            | 4     |
| 8  | £6                                                                               | 3     |
| 9  | <b>a)</b> $r = \sqrt{A/\pi}$ <b>b)</b> $u = \sqrt{v^2 - 2as}$                    | 4     |
| 10 | $x = \frac{w - 10y}{2}$                                                          | 3     |
| 11 | <b>a)</b> $(x + 3)(x + 4)$ <b>b)</b> $(x - 5)(x + 3)$ <b>c)</b> $(x + 9)(x - 9)$ | 3     |
| 12 | $x = 8$ or $x = -3$                                                              | 3     |

Full worked solutions, written out by hand, are on the solutions sheet for this topic.