

## Year 8 Algebra Worksheet – Answers

A.

- |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|
| 1  | 6  | 2  | 11 | 3  | 1  | 4  | 9  |
| 5  | 60 | 6  | 9  | 7  | 6  | 8  | 4  |
| 9  | 7  | 10 | 4  | 11 | 12 | 12 | 11 |
| 13 | 9  | 14 | 2  | 15 | 35 |    |    |

B.

- 1)  $2(4 + 2r) = 8 + 4r$     2)  $6(1 + 3j) + 4 = 10 + 18j$     3)  $8d + 2(4 + 8d) = 24d + 8$   
 4)  $2x + 3(x + 5y) = 5x + 15y$     5)  $(3x + 5y) - (2x - 3y) = x + 8y$

C.

- |   |               |   |              |   |               |
|---|---------------|---|--------------|---|---------------|
| 1 | $12n, 48$     | 2 | $8n + 7, 39$ | 3 | $2n + 11, 19$ |
| 4 | $5n + 60, 80$ | 5 | $4n - 16, 0$ |   |               |

D. Solve the following linear equations and find the value of the variable x

- |   |    |    |   |   |    |   |    |
|---|----|----|---|---|----|---|----|
| 1 | -1 | 2  | 4 | 3 | 3  | 4 | -1 |
| 5 | 6  | 6  | 4 | 7 | -2 | 8 | -5 |
| 9 | 3  | 10 | 2 |   |    |   |    |