

2yr 1GCSE Week 4 answers

1, a, -3 b, -18 c, -6 d, 9 e, -70 f, -13 g, 2
 h, -5 i, 7 j, -8 k, -2 l, -27

2, a, -6 b, 20 c, 6 d, -32 e, -9 f, -6

3, a, 3a b, n c, 3a + b d, 5a e, 3x + 6y f, 8a + 7b

g, 17b + 14c h, 16m + 19n i, -8x + 11 j, 2y - 5x

k, 11x² - 6x l, 6a - 2 + b m, 5x - y - 2z n, 3x² + 5x + 4

4, a, a² b, n² c, 2a d, 6c e, 10ab f, 21a² g, b³

h, b i, 6 j, 5 k, 6a l, 7b

5, a, 5 - 3 = 2 b, 5 - -3 = 8 c, -8 d, 15 e, -12

f, 11 g, -13 h, 30 - 6 = 24 i, 10 - 15 = -5 j, 5x - 3 = -15

k, -45 l, 25 m, (-3)² = +9 n, 75 o, 18 p, 40

q, 25 + 5 = 30 r, 9 - 3 = 12

6, a, 3x + 3 b, 5x - 10 c, 18 - 6a d, 8c + 24 e, 21 - 35d

f, 3a² + 5a g, 2g² - 4g h, 3r² + 6rs i, 3x³ - 5x² j, 5gh + 3g²h

k, 24ab + 30b l, -2a - 12 m, -28 + 7x n, -3 - 5a o, -2a - 5b + c

7, a, x² + 3x + 2 b, x² + 8x + 15 c, a² - a - 12 d, 20 - 9b + b²

e, 2e² + 11e + 14 f, 10x² + 11x + 3 g, 12c² + 18c - 12 h, x² + 10x + 25

i, a² - 6a + 9 j, 4x² - 16x + 16 k, 3(14 + 5a - a²)

l, 9a² + 48a + 64 m, 5(4j² - 4g + g²)
 = 20j² - 20g + 5g²
 expand brackets first
 then x by 3 = 42 + 15a - 3a²

8, Product means x (3x - 2)(x + 2) = 3x² + 4x - 4

b (3x + 4)(3x + 4) = 9x² + 24x + 16

$$9, a, \text{Perimeter} = 4x+2 \\ \text{Area} = x^2+x$$

$$b, P = 4x \\ A = x^2$$

$$c, P = 4x+12 \\ A = x^2+6x$$

$$d, P = 4x+20 \\ A = x^2+10x+24$$

$$e, P = 6x+4 \\ A = 2x^2+5x-3$$

$$f, P = 8x+4 \\ A = 3x^2-2x-8$$

$$10, a, 5x+30+3x+6 \\ = 8x+36$$

$$b, 7y+14+4y-12 \\ = 11y+2$$

$$c, 3x^2+6-2x^2+12 \\ = x^2+18$$

$$d, 9-4-x \\ = 5-x$$

$$e, 15a-7+2a \\ = 17a-7$$

$$f, 4x+12-3x+6 \\ = 7x+18$$

$$g, 12d+3x-6d-10c+5cd \\ = 11d-7c$$

11, Expand both sides to show that it is equal

$$(4x-3)(x+2)$$

$$4x^2+8x-3x-6$$

$$4x^2+5x-6$$

$$x(4x-5)-6$$

$$4x^2-5x-6$$

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