

KS3 Higher week 8 Answers

1, a, -3 b, +1 c, -3 d, -11 e, -7 f, -3
 g, -12 h, 4 i, -20 j, -15 k, 9 l, -29

2, a, $3-16 = -13$ b, $6+2 = 8$ c, $8-3 = 5$ d, $7-5 = -2$
 e, $-9+4 = -5$ f, $-8-15 = -23$

3, a, -8 b, 15 c, 8 d, -28 e, -8 f, -12
 g, 42 h, -36 i, -5 j, 15 k, -60

4, a, $3m$ b, $2t$ c, $5c + 11a$ d, $7a$ e, $6x$
 f, $9b + 2a$ g, $2j - 3e$ h, $7a + 10b$ i, $7x + 11$
 k, $3y - 2x$ l, $4a^2 + 7a$ m, $5m + 3n$ n, $-3a + 5$
 o, $11x - 2y + 3z$

5, a, a^2 b, t^2 c, $3z$ d, $12b$ e, $10a$ f, $18a^2$
 g, b^3 h, ab i, $42ab$ j, a^3 k, b l, 4
 m, $3n$ n, 3 o, 8 p, $12a^2$ q, $40m^2n$

6, a, $2x + 2$ b, $6x - 6$ c, $5a + 15$ d, $4c - 24$ e, $12 - 3d$
 f, $a^2 + 2a$ g, $g^2 - 3g$ h, $r^2 + sr$ i, $6x + 10$ j, $35 - 21a$
 k, $2x^2 + 8x$ l, $5a^2 - a$ m, $3x^2 + 4xy$ n, $2gh + 3g^2h$
 o, $-8 - 2x$ p, $-6x + 18$ q, $2x^3 - 7x^2$

7, a, $2x + 6 + 4x + 20$ b, $7a - 5$ c, $3b + 10$
 $=> 6x + 26$

8, a, $2+6 = 8$ b, $2-6 = -4$ c, $6-2 = 4$ d, 6 e, 24
 f, $10+12 = 22$ g, $4+30 = 34$ h, $2 \times 6 = 12$ i, 36

$$j, 3 \times a^2 \\ 3 \times 4 = 12$$

$$k, 2 \times 36 = 72$$

$$l, 5 \times (2-6) \\ 5 \times -4 = -20$$

$$9, a, 1-3 = -2 \quad b, 1-3 = 4 \quad c, -3-1 = -4 \quad d, 4 \times -3 = -12$$

$$e, 7-6 = 1 \quad f, 10+9 = 19 \quad g, 1 \times -3 = -3 \quad h, -15$$

$$i, 1 \quad j, (-3)^2 = -3 \times -3 = +9 \quad k, 10$$

$$10, a, \text{Area} = 3(x+2) = 3x+6$$

$$b, \text{Area} = x^2$$

$$\text{Perimeter} = x+2+3+x+2+3 = 2x+10 \quad \text{Perimeter} = 4x$$

$$c, \text{Area} = x^2+6x$$

$$d, \text{Area} = \text{Area } 2x^2-x$$

$$\text{Perimeter} = 4x+12$$

$$\text{Perimeter} = 6x-2$$

$$e, \text{Area} = 12x^2$$

$$\text{Perimeter} = 14x$$