1. (a)   Factorise $8x - 20$

....
(1)

   (b) Factorise fully $10x^2 - 15xy$

....
(2)
(3 marks)

---

2. (a)   Factorise $3x + 12$

....
(1)

   (b)   Factorise fully $2x^2 - 4xy$

....
(2)

   (c)   Expand and simplify $3(2a + 5) + 5(a - 2)$

....
(2)
(5 marks)

---

3. (a)   Expand $3(2y - 5)$

....
(1)

   (b)   Factorise completely $8x^2 + 4xy$

....
(2)
(3 marks)

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4. (a)   Expand $4(3x + 5)$

....
(1)

(b)   Expand and simplify $3(x - 4) - 2(x + 5)$

....
(2)
(3 marks)

---

5. (a)   Factorise $x^2 + 7x$

....
(2)

(*b*)   Expand $x(x + 2)$

....
(2)

(*c*)   Factorise completely $2y^2 - 4y$

....
(2)
(6 marks)

---

6. (a) Expand $3(4x + y)$

(2)

....
(b)   Expand $5p(p - 3)$

(2)

....
(c)   Factorise completely $8y^2 - 24xy$

....
(2)
(6 marks)

---

7. (a)   Expand and simplify $3(x + 4) + 2(5x - 1)$

....
(2)

(b)   Factorise completely $6y^2 - 9xy$

....
(2)
(4 marks)

---

8. (a) Factorise fully $6y^2 + 12y$

(2)

....
(b)   Factorise $5x - 10$

....
(1)

(c) Factorise fully $2p^2 - 4pq$

....
(2)
(5 marks)

---

9. (a)   Expand and simplify $3(x + 5) + 2(5x - 6)$

....
(2)

(b)   Factorise $5x + 10$

....
(1)

(c)   Factorise $x^2 - 7x$

....
(1)
(4 marks)

---

10. (a)   Expand $x(x + 2)$

....
(2)

(b)   Factorise $15x - 10$

....
(2)

(c)   Expand and simplify $2(x - y) - 3(x - 2y)$

....
(2)
(6 marks)

---

11. (a)   Factorise $4x + 10$

(1)

....

(b)   Factorise fully $6y^2 + 12y$

(2)

....

(c)   Factorise $4 + 6x$

....
(2)
(5 marks)

---

12.   (a)   Expand $3(2y - 5)$

....
(1)

(b)   Factorise completely $8x^2 + 4xy$

....
(2)

(c)   Factorise $4x + 10y$

....
(2)
(5 marks)

---

13. (a) Expand $3(x + 4)$

....
(1)

(b) Expand $x(x^2 + 2)$

....
(2)

(c) Factorise $x^2 - 6x$

....
(1)

(4 marks)

---

14. (a) Factorise $p^2 + p$

....
(1)

(b) Factorise $x^2 + 7x$

....
(1)

(c) Expand and simplify $4(x - 3) - 2(1 - x)$

....
(2)

(4 marks)

---

15. (a) Factorise $4x + 10y$

....
(1)

(b) Factorise $x^2 + 7x$

....
(1)

(c) Expand $x^2(x + 5)$

....
(2)

(4 marks)

---

16. (a) Expand $5(2y - 3)$

....
(1)

(b) Expand the brackets $p(q - p^2)$

....
(1)

(c) Expand and simplify $5(3p + 2) - 2(5p - 3)$

....
(2)
(4 marks)

17. (a) Expand $3(2g - 1)$

....
(1)

(b) Expand $2d(d + 3)$

....
(2)

(c) Factorise $p^2 + 6p$

……………………
(2)
(5 marks)

18. (a) Multiply out $7(n - 3)$

……………………
(1)

(b) Expand $5(2y - 3)$

....
(1)

(c) Expand and simplify

$2(3x + 4) - 3(4x - 5)$

....
(2)
(4 marks)

19. (a) Expand $\quad\quad\quad\quad\quad y(y^3 + 2y)$

………………….. **(2)**

(b) Factorise completely $\quad 6x^2 - 9xy$

………………….. **(2)**

(c) Expand and simplify $\quad 5(3p + 2) - 2(5p - 3)$

.... **(2)**
(6 marks)

20. Expand the brackets

(i) $\quad\quad\quad 4(2x - 3)$

.... **(2)**

(ii) $\quad\quad\quad p(q - p^2)$

.... **(2)**

(ii) $\quad\quad\quad t(3t^2 + 4)$

……………………… **(2)**
(6 marks)

21. (a) Factorise $\quad\quad\quad\quad 3t - 12$

…………………………… **(2)**

(b) Factorise $\quad\quad\quad\quad y^2 + y$

…………………………… **(1)**

(c) Expand and simplify $\quad 3(2x - 1) - 2(2x - 3)$

.

(2)
(6 marks)