2.4 Algebra: 2-hour Pack

ISEB CE.M4 · Calculator allowed · about 120 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Solve $8x - 5 > 51$

- [ ] A) $x > 7$
- [ ] B) $x < 8$
- [ ] C) $x > 6$
- [ ] D) $x > 8$
- [ ] E) $x < -7$

---

2 Solve $9x + 2 = 6x - 16$

- [ ] A) $x = -7$
- [ ] B) $x = 6$
- [ ] C) $x = -1.2$
- [ ] D) $x = -5$
- [ ] E) $x = -6$

---

3 Solve $x^2 - x - 30 = 0$

- [ ] A) $x = -30$ or $x = 1$
- [ ] B) $x = -5$ or $x = 6$
- [ ] C) $x = -6$ or $x = 7$
- [ ] D) $x = -6$ or $x = -5$
- [ ] E) $x = 5$ or $x = 6$

---

4 Work out the value of $5x^2 - 6xy + 2$ when $x = -1$ and $y = -4$.

- [ ] A) -17
- [ ] B) -27
- [ ] C) 58
- [ ] D) 31
- [ ] E) -32

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5 Simplify -7 + 7y + 6x - 4y + 2x

- [ ] A) 8x + 11y - 7
- [ ] B) 8x + 3y + 7
- [ ] C) 8x + 3y - 7
- [ ] D) 11x - 7
- [ ] E) -4x + 3y - 7

---

6 Expand and simplify $(x + 2)^2$

- [ ] A) $x^2 + 4$
- [ ] B) $x^2 + 4x - 4$
- [ ] C) $x^2 - 4x + 4$
- [ ] D) $x^2 + 4x + 4$
- [ ] E) $x^2 + 6x + 4$

---

7 Expand 3x(x - 2)

- [ ] A) $3x^2 - 6x$
- [ ] B) $3x^2 - 2x$
- [ ] C) $-6x^2 + 3x$
- [ ] D) $3x^2 + 6x$
- [ ] E) $x^2 - 6x$

---

8 Factorise fully $12x^2 + 8x$

- [ ] A) x(12x + 8)
- [ ] B) $4(3x^2 + 2x)$
- [ ] C) 4x(3x + 2)
- [ ] D) 4x(3x + 8)
- [ ] E) 2x(6x + 4)

---

9 Make w the subject of the formula A = 8(w + 9).

- [ ] A) w = A / 8 - 9
- [ ] B) w = (A - 9) / 8
- [ ] C) w = (A + 9) / 8
- [ ] D) w = A - 9 / 8
- [ ] E) w = 8A - 9

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10 Solve the simultaneous equations $5x + 4y = 43$ and $5x - 4y = 27$.

- [ ] A) $x = 7, y = 1$
- [ ] B) $x = 7, y = -2$
- [ ] C) $x = 8, y = 2$
- [ ] D) $x = 7, y = 2$
- [ ] E) $x = 2, y = 7$

---

11 Solve $4x - 5 < 23$

- [ ] A) $x < 8$
- [ ] B) $x < 7$
- [ ] C) $x > -7$
- [ ] D) $x < 6$
- [ ] E) $x > 8$

---

12 Solve $x/5 - 5 = -8$

- [ ] A) $x = 15$
- [ ] B) $x = -0.6$
- [ ] C) $x = -65$
- [ ] D) $x = -3$
- [ ] E) $x = -15$

---

13 Solve $x^2 - 4x - 12 = 0$

- [ ] A) $x = -2$ or $x = 6$
- [ ] B) $x = 2$ or $x = 6$
- [ ] C) $x = -12$ or $x = 4$
- [ ] D) $x = -6$ or $x = 2$
- [ ] E) $x = -6$ or $x = -2$

---

14 Work out the value of $4xy - 3x$ when $x = -5$ and $y = 2$.

- [ ] A) -46
- [ ] B) 55
- [ ] C) 25
- [ ] D) -5
- [ ] E) -25

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15 Simplify -6x + 4y + 4x + 9y

- [ ] A) -2x - 5y
- [ ] B) -10x + 13y
- [ ] C) -2x + 13y
- [ ] D) 11x
- [ ] E) 10x + 13y

---

16 Expand and simplify (x + 3)(x + 8)

- [ ] A) x^2 + 11x - 24
- [ ] B) x^2 + 11x + 24
- [ ] C) x^2 + 11x + 11
- [ ] D) x^2 + 13x + 24
- [ ] E) x^2 - 11x + 24

---

17 Expand and simplify 6(4x + 5) - 6(x + 4)

- [ ] A) 30x + 6
- [ ] B) 18x - 54
- [ ] C) 18x + 54
- [ ] D) 18x + 6
- [ ] E) 30x + 54

---

18 Factorise fully x^2 + 10x + 9

- [ ] A) (x + 9)(x + 1)
- [ ] B) (x - 9)(x + 1)
- [ ] C) (x + 9)(x + 2)
- [ ] D) (x + 10)(x + 9)
- [ ] E) (x + 9)(x - 1)

---

19 Make t the subject of the formula A = 9t - 5.

- [ ] A) t = (A + 5) / 9
- [ ] B) t = A / 9 - 5
- [ ] C) t = (A - 5) / 9
- [ ] D) t = 9(A + 5)
- [ ] E) t = A + 5 / 9

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20 Solve the simultaneous equations $4x + y = 14$ and $5x - 4y = -14$.

- [ ] A) $x = -2, y = 6$
- [ ] B) $x = 2, y = 6$
- [ ] C) $x = 3, y = 6$
- [ ] D) $x = 2, y = 7$
- [ ] E) $x = 2, y = -6$

---

21 Solve $-2x - 3 < 13$

- [ ] A) $x > 8$
- [ ] B) $x < -7$
- [ ] C) $x > -7$
- [ ] D) $x < 8$
- [ ] E) $x > -8$

---

22 Solve $2(x + 2) = -6$

- [ ] A) $x = 5$
- [ ] B) $x = -2$
- [ ] C) $x = -1$
- [ ] D) $x = -5$
- [ ] E) $x = -14$

---

23 Solve $x^2 + 2x - 8 = 0$

- [ ] A) $x = 2$ or $x = 4$
- [ ] B) $x = -3$ or $x = 1$
- [ ] C) $x = -4$ or $x = 2$
- [ ] D) $x = -2$ or $x = 4$
- [ ] E) $x = -4$ or $x = -2$

---

24 Simplify $9x + 3y - 1 + 8x + 8y$

- [ ] A) $17x - 5y - 1$
- [ ] B) $17x + 5y - 1$
- [ ] C) $28x - 1$
- [ ] D) $17x + 11y - 1$
- [ ] E) $x + 11y - 1$

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25 Work out the value of $7x^2 - 4xy + 2$ when $x = -5$ and $y = 2$.

- [ ] A) 137
- [ ] B) -133
- [ ] C) 217
- [ ] D) -28
- [ ] E) 70

---

26 Simplify $2x + 4y - 3 - 6x + 4y$

- [ ] A) $-4x - 3$
- [ ] B) $4x - 3$
- [ ] C) $-4x + 8y + 3$
- [ ] D) $-4x + 8y - 3$
- [ ] E) $8x + 8y - 3$

---

27 Expand and simplify $(x + 3)(x + 4)$

- [ ] A) $x^2 - 7x + 12$
- [ ] B) $x^2 + 7x - 12$
- [ ] C) $x^2 + 9x + 12$
- [ ] D) $x^2 + 7x + 7$
- [ ] E) $x^2 + 7x + 12$

---

28 Factorise fully $2x^2 - 4x - 30$

- [ ] A) $2(x + 3)(x + 5)$
- [ ] B) $2(x + 3)(x - 5)$
- [ ] C) $2(x - 3)(x + 5)$
- [ ] D) $(x + 3)(x - 5)$
- [ ] E) $(2x + 3)(x - 5)$

---

29 Make x the subject of the formula $v = x / 4 + 7$.

- [ ] A) $x = 4v + 7$
- [ ] B) $x = v - 7 / 4$
- [ ] C) $x = (v - 7) / 4$
- [ ] D) $x = 4(v - 7)$
- [ ] E) $x = 4(v + 7)$

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30 Solve the simultaneous equations $2x + 2y = 12$ and $3x - 2y = 3$.

- [ ] A) $x = 3, y = 3$
- [ ] B) $x = 3, y = -3$
- [ ] C) $x = 3, y = 4$
- [ ] D) $x = -3, y = 3$
- [ ] E) $x = -3, y = -3$

---

31 Solve $7x + 3 > -11$

- [ ] A) $x > -1$
- [ ] B) $x < -2$
- [ ] C) $x > -3$
- [ ] D) $x < -1$
- [ ] E) $x > -2$

---

32 Solve $x/5 - 8 = -12$

- [ ] A) $x = -4$
- [ ] B) $x = 20$
- [ ] C) $x = -20$
- [ ] D) $x = -52$
- [ ] E) $x = -0.8$

---

33 Solve $x^2 - 6x - 7 = 0$

- [ ] A) $x = 1$ or $x = 7$
- [ ] B) $x = -1$ or $x = 7$
- [ ] C) $x = 0$ or $x = 6$
- [ ] D) $x = -7$ or $x = 6$
- [ ] E) $x = -7$ or $x = -1$

---

34 Expand and simplify $(x + 3)(x + 7)$

- [ ] A) $x^2 - 10x + 21$
- [ ] B) $x^2 + 4x + 21$
- [ ] C) $x^2 + 10x + 21$
- [ ] D) $x^2 + 10x - 21$
- [ ] E) $x^2 + 10x + 10$

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35 Work out the value of $5x^2 - 4y$ when $x = -5$ and $y = 4$.

- [ ] A) 141
- [ ] B) 109
- [ ] C) 100
- [ ] D) -141
- [ ] E) -66

---

36 Simplify $7x + 2y + 6x + 2y$

- [ ] A) 13x
- [ ] B) 17x
- [ ] C) 13x + 4y
- [ ] D) x + 4y
- [ ] E) -x + 4y

---

37 Expand and simplify $(x - 8)(x - 5)$

- [ ] A) $x^2 - 13x - 40$
- [ ] B) $x^2 - 11x + 40$
- [ ] C) $x^2 + 13x + 40$
- [ ] D) $x^2 + 40$
- [ ] E) $x^2 - 13x + 40$

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38 Expand and simplify $5(3x + 8) - 5(4x + 4)$

- [ ] A) -5x + 20
- [ ] B) -5x + 40
- [ ] C) 35x + 60
- [ ] D) 35x + 20
- [ ] E) -5x + 60

---

39 Factorise fully $24x + 6$

- [ ] A) 6(4x + 2)
- [ ] B) 6(4x - 1)
- [ ] C) 6(24x + 1)
- [ ] D) 6(4x + 1)
- [ ] E) 2(12x + 3)

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40 Make x the subject of the formula $T = 6x - 7$.

- [ ] A) $x = (T - 7) / 6$
- [ ] B) $x = T / 6 - 7$
- [ ] C) $x = (7 - T) / 6$
- [ ] D) $x = (T + 7) / 6$
- [ ] E) $x = T + 7 / 6$

---

41 Solve the simultaneous equations $x + y = 11$ and $3x - 4y = 12$.

- [ ] A) $x = 8, y = 2$
- [ ] B) $x = 9, y = 3$
- [ ] C) $x = 8, y = -3$
- [ ] D) $x = -8, y = 3$
- [ ] E) $x = 8, y = 3$

---

42 Solve $-2x + 3 < 13$

- [ ] A) $x > -5$
- [ ] B) $x > -4$
- [ ] C) $x > -8$
- [ ] D) $x < -4$
- [ ] E) $x < -5$

---

43 Solve $4x + 8 = -12$

- [ ] A) $x = 5$
- [ ] B) $x = -11$
- [ ] C) $x = -5$
- [ ] D) $x = -80$
- [ ] E) $x = -4$

---

44 Solve $x^2 - x - 56 = 0$

- [ ] A) $x = -8$ or $x = 7$
- [ ] B) $x = -7$ or $x = 8$
- [ ] C) $x = 7$ or $x = 8$
- [ ] D) $x = -56$ or $x = 1$
- [ ] E) $x = -8$ or $x = -7$

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45 Expand and simplify 6(4x - 1) - 7(5x - 1)

- [ ] A) -11x - 5
- [ ] B) -11x + 13
- [ ] C) 59x - 13
- [ ] D) 59x + 1
- [ ] E) -11x + 1

---

46 Work out the value of $4x^2 - 7xy + 5$ when x = -1 and y = -5.

- [ ] A) 44
- [ ] B) -38
- [ ] C) 70
- [ ] D) -34
- [ ] E) -26

---

47 Simplify 6x + 9y + 5 + y + 3x

- [ ] A) 9x - 8y + 5
- [ ] B) 3x + 10y + 5
- [ ] C) 9x + 10y + 5
- [ ] D) 9x + 8y + 5
- [ ] E) 9x + 10y - 5

---

48 Expand and simplify (x + 2)(x + 7)

- [ ] A) $x^2 - 9x + 14$
- [ ] B) $x^2 + 9x + 14$
- [ ] C) $x^2 + 5x + 14$
- [ ] D) $x^2 + 9x + 9$
- [ ] E) $x^2 + 9x - 14$

---

49 Expand 2x(x + 2)

- [ ] A) $2x^2 + 4x$
- [ ] B) $x^2 + 4x$
- [ ] C) $2x^2 + 2x$
- [ ] D) $4x^2 + 2x$
- [ ] E) 2x + 4

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50 Factorise fully $x^2 - 14x + 45$

- [ ] A) $(x - 14)(x + 45)$
- [ ] B) $(x - 4)(x - 10)$
- [ ] C) $(x + 5)(x - 9)$
- [ ] D) $(x - 5)(x - 9)$
- [ ] E) $(x - 5)(x - 8)$

---

51 Make t the subject of the formula $C = t / 5 + 4$.

- [ ] A) $t = 5(C + 4)$
- [ ] B) $t = C - 4 / 5$
- [ ] C) $t = 5(C - 4)$
- [ ] D) $t = 5C + 4$
- [ ] E) $t = 5C - 4$

---

52 Solve the simultaneous equations $5x + 2y = 45$ and $x - 2y = -3$.

- [ ] A) $x = 5, y = 7$
- [ ] B) $x = -7, y = 5$
- [ ] C) $x = 8, y = 5$
- [ ] D) $x = 7, y = 4$
- [ ] E) $x = 7, y = 5$

---

53 Solve $7x - 3 < -52$

- [ ] A) $x < 7$
- [ ] B) $x < -7$
- [ ] C) $x > -7$
- [ ] D) $x < -6$
- [ ] E) $x < -8$

---

54 Solve $9x + 2 = 7x - 14$

- [ ] A) $x = -9$
- [ ] B) $x = -1$
- [ ] C) $x = -8$
- [ ] D) $x = -6$
- [ ] E) $x = -7$

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55 Factorise fully $x^2 + 9x + 14$

- [ ] A) $(x + 7)(x - 2)$
- [ ] B) $(x + 8)(x + 1)$
- [ ] C) $(x + 7)(x + 2)$
- [ ] D) $(x + 9)(x + 14)$
- [ ] E) $(x + 7)(x + 3)$

---

56 Make n the subject of the formula $P = 3n - 8$.

- [ ] A) $n = P + 8 / 3$
- [ ] B) $n = (P + 8) / 3$
- [ ] C) $n = P / 3 - 8$
- [ ] D) $n = (8 - P) / 3$
- [ ] E) $n = (P - 8) / 3$

---

57 Solve the simultaneous equations $6x + 3y = 21$ and $3x - 9y = 21$.

- [ ] A) $x = -4, y = 1$
- [ ] B) $x = 4, y = -2$
- [ ] C) $x = -1, y = 4$
- [ ] D) $x = 4, y = -1$
- [ ] E) $x = 5, y = -1$

---

58 Solve $6x + 8 > -40$

- [ ] A) $x > -8$
- [ ] B) $x < -8$
- [ ] C) $x > 8$
- [ ] D) $x < 8$
- [ ] E) $x > -7$

---

59 Solve $3(x - 1) = -27$

- [ ] A) $x = -8$
- [ ] B) $x = -7$
- [ ] C) $x = 8$
- [ ] D) $x = -80$
- [ ] E) $x = -10$

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60 Solve $x^2 + 15x + 56 = 0$

- [ ] A) x = -15 or x = 56
- [ ] B) x = -8 or x = -7
- [ ] C) x = 7 or x = 8
- [ ] D) x = -7 or x = 8
- [ ] E) x = -8 or x = 7

---

61 Work out the value of $(5x + 5)(y - 4)$ when $x = -2$ and $y = 3$.

- [ ] A) -15
- [ ] B) 10
- [ ] C) 0
- [ ] D) -105
- [ ] E) 5

---

62 Simplify $-2y - x - 3x + 3y + 8$

- [ ] A) $-4x + y - 8$
- [ ] B) $-3x + 8$
- [ ] C) $-4x - 5y + 8$
- [ ] D) $-4x + y + 8$
- [ ] E) $2x + y + 8$

---

63 Expand and simplify $(x + 5)^2$

- [ ] A) $x^2 + 10x + 10$
- [ ] B) $x^2 + 12x + 25$
- [ ] C) $x^2 + 10x + 25$
- [ ] D) $x^2 + 25$
- [ ] E) $x^2 + 10x - 25$

---

64 Expand $6(x - 6)$

- [ ] A) 6x + 36
- [ ] B) 6x - 6
- [ ] C) 6x - 30
- [ ] D) 6x - 36
- [ ] E) x - 36

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65 Factorise fully $x^2 + 9x + 8$

- [ ] A) $(x + 1)(x + 8)$
- [ ] B) $(x - 1)(x - 8)$
- [ ] C) $(x + 9)(x + 8)$
- [ ] D) $(x + 1)(x - 8)$
- [ ] E) $(x - 1)(x + 8)$

---

66 Make x the subject of the formula $Q = x / 7 + 9$.

- [ ] A) $x = (Q - 9) / 7$
- [ ] B) $x = 7(Q - 9)$
- [ ] C) $x = Q - 9 / 7$
- [ ] D) $x = 7Q - 9$
- [ ] E) $x = 7Q + 9$

---

67 Solve the simultaneous equations $x + 3y = -2$ and $2x - 3y = 14$.

- [ ] A) $x = 4, y = -1$
- [ ] B) $x = -2, y = 4$
- [ ] C) $x = 4, y = -2$
- [ ] D) $x = -4, y = -2$
- [ ] E) $x = 4, y = 2$

---

68 Solve $5x - 9 < 41$

- [ ] A) $x < -10$
- [ ] B) $x < 9$
- [ ] C) $x > -10$
- [ ] D) $x < 11$
- [ ] E) $x < 10$

---

69 Solve $9x - 3 = 4x + 7$

- [ ] A) $x = -2$
- [ ] B) $x = 3$
- [ ] C) $x = 1$
- [ ] D) $x = 2$
- [ ] E) $x = 0.8$

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70 Solve $x^2 - 13x + 42 = 0$

- [ ] A) x = -7 or x = -6
- [ ] B) x = 6 or x = 7
- [ ] C) x = -6 or x = 7
- [ ] D) x = -7 or x = 6
- [ ] E) x = 13 or x = 42

---

71 Work out the value of 4xy - 7x when x = -4 and y = 2.

- [ ] A) 12
- [ ] B) -46
- [ ] C) 4
- [ ] D) 60
- [ ] E) -4

---

72 Simplify 5y + 3x - 2x + 9y

- [ ] A) x + 14y
- [ ] B) x - 4y
- [ ] C) 5x + 14y
- [ ] D) x + 4y
- [ ] E) 15x

---

73 Expand and simplify (x - 7)(x - 5)

- [ ] A) $x^2 + 12x + 35$
- [ ] B) $x^2 + 2x + 35$
- [ ] C) $x^2 - 12x + 35$
- [ ] D) $x^2 - 12x - 35$
- [ ] E) $x^2 - 12x - 12$

---

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

- [ ] A) 22x + 4
- [ ] B) 22x
- [ ] C) 22x - 8
- [ ] D) 22x - 4
- [ ] E) 5x - 4

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75 Factorise fully 21x + 28

- [ ] A) 7(3x + 4)
- [ ] B) 7(3x + 28)
- [ ] C) 7(3x + 5)
- [ ] D) 7(3x - 4)
- [ ] E) 7(21x + 4)

---

76 Make m the subject of the formula v = 6m - 8.

- [ ] A) m = 6(v + 8)
- [ ] B) m = (v - 8) / 6
- [ ] C) m = (v + 8) / 6
- [ ] D) m = v + 8 / 6
- [ ] E) m = (8 - v) / 6

---

77 Solve the simultaneous equations 6x + 2y = -46 and 6x - 6y = -6.

- [ ] A) x = 6, y = -5
- [ ] B) x = -5, y = -6
- [ ] C) x = -6, y = 5
- [ ] D) x = 6, y = 5
- [ ] E) x = -6, y = -5

---

78 Solve -6x - 1 < -7

- [ ] A) x < 2
- [ ] B) x > 1
- [ ] C) x < 1
- [ ] D) x > 2
- [ ] E) x < -1

---

79 Solve 4(x + 4) = -8

- [ ] A) x = -3
- [ ] B) x = 2
- [ ] C) x = -36
- [ ] D) x = -6
- [ ] E) x = 6

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80 Solve $x^2 + 9x + 14 = 0$

- [ ] A) x = 2 or x = 7
- [ ] B) x = -7 or x = -2
- [ ] C) x = -6 or x = -3
- [ ] D) x = -2 or x = 7
- [ ] E) x = -7 or x = 2

---

81 Work out the value of $6x^2 - 3xy + 3$ when x = -4 and y = 5.

- [ ] A) -33
- [ ] B) 213
- [ ] C) 15
- [ ] D) 39
- [ ] E) 159

---

82 Simplify -2y - 2 + 4x + 2x - 4y

- [ ] A) 6x - 6y - 2
- [ ] B) 2x - 6y - 2
- [ ] C) 6x - 6y + 2
- [ ] D) -2
- [ ] E) 6x + 2y - 2

---

83 Expand and simplify $(x + 8)^2$

- [ ] A) $x^2 - 16x + 64$
- [ ] B) $x^2 + 18x + 64$
- [ ] C) $x^2 + 16x + 64$
- [ ] D) $x^2 + 16x - 64$
- [ ] E) $x^2 + 64$

---

84 Expand and simplify 6(3x - 3) + 2(x - 1)

- [ ] A) 20x - 20
- [ ] B) 8x - 20
- [ ] C) 20x - 4
- [ ] D) 20x + 20
- [ ] E) 20x - 16

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85 Factorise fully $x^2 - 121$

- [ ] A) $(x - 11)(x - 11)$
- [ ] B) $(x - 121)(x + 1)$
- [ ] C) $(x - 11)^2$
- [ ] D) $(x + 11)(x - 11)$
- [ ] E) $(x + 11)(x - 121)$

---

86 Make t the subject of the formula $y = t / 5 + 5$.

- [ ] A) $t = y - 5 / 5$
- [ ] B) $t = 5(y + 5)$
- [ ] C) $t = 5(y - 5)$
- [ ] D) $t = 5y - 5$
- [ ] E) $t = (y - 5) / 5$

---

87 Solve the simultaneous equations $3x + 4y = -32$ and $3x - 4y = 8$.

- [ ] A) $x = -4, y = -6$
- [ ] B) $x = 4, y = -5$
- [ ] C) $x = -5, y = -4$
- [ ] D) $x = -4, y = 5$
- [ ] E) $x = -4, y = -5$

---

88 Solve $7x - 4 > -53$

- [ ] A) $x < -7$
- [ ] B) $x > -7$
- [ ] C) $x > -6$
- [ ] D) $x < -6$
- [ ] E) $x < 7$

---

89 Solve $x^2 + 10x + 21 = 0$

- [ ] A) $x = -8$ or $x = -2$
- [ ] B) $x = -7$ or $x = -3$
- [ ] C) $x = -10$ or $x = 21$
- [ ] D) $x = -3$ or $x = 7$
- [ ] E) $x = 3$ or $x = 7$

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90 Work out the value of $5x + 4y - 4$ when $x = -2$ and $y = 1$.

- [ ] A) 2
- [ ] B) 10
- [ ] C) -18
- [ ] D) -10
- [ ] E) -5

---

91 Simplify $4y + x - 6y + 9x$

- [ ] A) $10x + 10y$
- [ ] B) $8x$
- [ ] C) $10x - 2y$
- [ ] D) $10x - 10y$
- [ ] E) $-8x - 2y$

---

92 Expand and simplify $(x - 3)(x - 6)$

- [ ] A) $x^2 - 9x + 18$
- [ ] B) $x^2 - 7x + 18$
- [ ] C) $x^2 - 9x - 9$
- [ ] D) $x^2 - 9x - 18$
- [ ] E) $x^2 + 18$

---

93 Expand and simplify $6(2x - 7) - 3(4x + 1)$

- [ ] A) $24x - 45$
- [ ] B) -45
- [ ] C) -39
- [ ] D) -42
- [ ] E) -43

---

94 Factorise fully $x^2 - 4x - 21$

- [ ] A) $(x - 4)(x - 21)$
- [ ] B) $(x + 7)(x + 3)$
- [ ] C) $(x - 7)(x + 4)$
- [ ] D) $(x - 6)(x + 2)$
- [ ] E) $(x - 7)(x + 3)$

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95 Make m the subject of the formula $A = 9m + 7$.

- [ ] A) $m = (7 - A) / 9$
- [ ] B) $m = A / 9 + 7$
- [ ] C) $m = (A - 7)9$
- [ ] D) $m = (A + 7) / 9$
- [ ] E) $m = (A - 7) / 9$

---

96 Solve the simultaneous equations $4x + 5y = 4$ and $2x - 15y = -68$.

- [ ] A) $x = -3, y = 4$
- [ ] B) $x = 4, y = -4$
- [ ] C) $x = -4, y = 3$
- [ ] D) $x = -4, y = 4$
- [ ] E) $x = -4, y = 5$

---

97 Solve $2x - 4 < -20$

- [ ] A) $x > -8$
- [ ] B) $x < -12$
- [ ] C) $x < -8$
- [ ] D) $x > 8$
- [ ] E) $x > -7$

---

98 Solve $2x - 7 = 3$

- [ ] A) $x = 5$
- [ ] B) $x = -2$
- [ ] C) $x = -5$
- [ ] D) $x = 8.5$
- [ ] E) $x = 6$

---

99 Solve $x^2 + 10x + 16 = 0$

- [ ] A) $x = -8$ or $x = 2$
- [ ] B) $x = -8$ or $x = -2$
- [ ] C) $x = 2$ or $x = 8$
- [ ] D) $x = -10$ or $x = 16$
- [ ] E) $x = -2$ or $x = 8$

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100 Solve each equation, showing your working.

(a) Solve $4(x + 2) = 2(x + 9)$. **(3)**

(b) Solve $3x - 5 = x + 11$. **(2)**

---

101 Work out the value of $(2x + 3)(y - 5)$ when $x = -4$ and $y = -3$.

- ☐ A) 24
- ☐ B) 45
- ☐ C) 40
- ☐ D) -22
- ☐ E) 27

---

102 Simplify $8x + 6y + 6y - 4 - 6x$

- ☐ A) $2x + 12y + 4$
- ☐ B) $2x - 4$
- ☐ C) $14x + 12y - 4$
- ☐ D) $2x + 12y - 4$
- ☐ E) $14x - 4$

---

103 Expand and simplify $(x + 3)(x + 9)$

- ☐ A) $x^2 + 12x + 27$
- ☐ B) $x^2 + 27$
- ☐ C) $x^2 + 12x - 27$
- ☐ D) $x^2 + 6x + 27$
- ☐ E) $x^2 + 12x + 12$

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104 Expand $8(4x + 6)$

- [ ] A) $4x + 48$
- [ ] B) $32x + 14$
- [ ] C) $32x + 56$
- [ ] D) $12x + 48$
- [ ] E) $32x + 48$

---

105 Factorise fully $x^2 + 5x - 24$

- [ ] A) $(x - 3)(x + 8)$
- [ ] B) $(x + 3)(x - 8)$
- [ ] C) $(x + 5)(x - 24)$
- [ ] D) $(x - 2)(x + 7)$
- [ ] E) $(x + 3)(x + 8)$

---

106 Make m the subject of the formula $v = m / 3 + 9$.

- [ ] A) $m = v - 9 / 3$
- [ ] B) $m = 3(v + 9)$
- [ ] C) $m = 3v + 9$
- [ ] D) $m = (v - 9) / 3$
- [ ] E) $m = 3(v - 9)$

---

107 Solve the simultaneous equations $2x + 3y = -9$ and $5x - 3y = -12$.

- [ ] A) $x = -2, y = -1$
- [ ] B) $x = -3, y = 0$
- [ ] C) $x = -3, y = -2$
- [ ] D) $x = -3, y = -1$
- [ ] E) $x = -1, y = -3$

---

108 Solve $7x - 6 < 8$

- [ ] A) $x < -2$
- [ ] B) $x > 2$
- [ ] C) $x < 2$
- [ ] D) $x < 1$
- [ ] E) $x < 3$

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109 Solve x/4 - 2 = 5

- [ ] A) x = 7
- [ ] B) x = 28
- [ ] C) x = 12
- [ ] D) x = -28
- [ ] E) x = 22

---

110 Solve $x^2 + 9x + 18 = 0$

- [ ] A) x = -3 or x = 6
- [ ] B) x = -7 or x = -2
- [ ] C) x = -6 or x = 3
- [ ] D) x = -9 or x = 18
- [ ] E) x = -6 or x = -3

---

111 Work out the value of $5x^2 - 5y$ when x = -1 and y = 5.

- [ ] A) -35
- [ ] B) 130
- [ ] C) -20
- [ ] D) 30
- [ ] E) -30

---

112 Simplify -2x + 3x + 3y - 2y

- [ ] A) x + y
- [ ] B) x - 5y
- [ ] C) -5x + y
- [ ] D) 5x + y
- [ ] E) x + 5y

---

113 Expand and simplify (x - 1)(x + 4)

- [ ] A) $x^2 - 4$
- [ ] B) $x^2 + 3x - 4$
- [ ] C) $x^2 + 5x - 4$
- [ ] D) $x^2 - 3x - 4$
- [ ] E) $x^2 + 3x + 4$

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114 Expand $9x(x - 5)$

- [ ] A) $9x^2 - 5x$
- [ ] B) $9x^2 + 4x$
- [ ] C) $x^2 - 45x$
- [ ] D) $9x^2 - 45x$
- [ ] E) $9x^2 + 45x$

---

115 Factorise fully $x^2 + 5x - 14$

- [ ] A) $(x + 7)(x - 2)$
- [ ] B) $(x + 7)(x - 1)$
- [ ] C) $(x + 7)(x + 2)$
- [ ] D) $(x + 5)(x - 14)$
- [ ] E) $(x + 8)(x - 3)$

---

116 Make w the subject of the formula $y = 9w + 4$.

- [ ] A) $w = y / 9 + 4$
- [ ] B) $w = (y - 4) / 9$
- [ ] C) $w = y - 4 / 9$
- [ ] D) $w = (y + 4) / 9$
- [ ] E) $w = (y - 4)9$

---

117 Solve the simultaneous equations $3x + 4y = -3$ and $3x - 8y = 69$.

- [ ] A) $x = 8, y = -6$
- [ ] B) $x = -7, y = 6$
- [ ] C) $x = 7, y = -6$
- [ ] D) $x = -6, y = 7$
- [ ] E) $x = 7, y = -7$

---

118 Solve $5x - 6 > 14$

- [ ] A) $x > -4$
- [ ] B) $x > 3$
- [ ] C) $x < -4$
- [ ] D) $x < 4$
- [ ] E) $x > 4$

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119 Solve $8x - 1 = 7$

- [ ] A) $x = -1$
- [ ] B) $x = 2$
- [ ] C) $x = 0.75$
- [ ] D) $x = 1$
- [ ] E) $x = 64$

---

120 Solve $x^2 + 5x - 6 = 0$

- [ ] A) $x = -7$ or $x = 2$
- [ ] B) $x = -6$ or $x = -1$
- [ ] C) $x = -1$ or $x = 6$
- [ ] D) $x = -6$ or $x = 1$
- [ ] E) $x = -6$ or $x = -5$

---

121 Work out the value of $(5x + 7)(y - 3)$ when $x = -2$ and $y = 3$.

- [ ] A) 0
- [ ] B) -102
- [ ] C) -110
- [ ] D) 3
- [ ] E) 18

---

122 Simplify $-5y - 4x + 9y + x + 8$

- [ ] A) $-5x + 4y + 8$
- [ ] B) $-3x + 14y + 8$
- [ ] C) $-3x + 4y + 8$
- [ ] D) $5x + 4y + 8$
- [ ] E) $-3x + 4y - 8$

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123 Expand and simplify $(x + 1)(x + 2)$

- [ ] A) $x^2 + 3x + 3$
- [ ] B) $x^2 - 3x + 2$
- [ ] C) $x^2 + 5x + 2$
- [ ] D) $x^2 + 2$
- [ ] E) $x^2 + 3x + 2$

---

124 Expand $6(3x - 7)$

- [ ] A) $18x + 42$
- [ ] B) $18x - 42$
- [ ] C) $18x - 7$
- [ ] D) $9x - 42$
- [ ] E) $18x - 36$

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Mark scheme · 2.4 Algebra: 2-hour Pack

Question 1

A cao (x > 7); solve like an equation **B1**

Answer: A) x > 7

Question 2

E cao (x = -6); do the same to both sides **B1**

Answer: E) x = -6

Question 3

B cao (x = -5 or x = 6); factorise, then set each bracket to zero **B1**

Answer: B) x = -5 or x = 6

Question 4

A cao (-17); substitute x = -1 and y = -4, using brackets for negatives **B1**

Answer: A) -17

Question 5

C cao (8x + 3y - 7); collect each type of term **B1**

Answer: C) 8x + 3y - 7

Question 6

D cao (x^2 + 4x + 4); multiply every term in the first bracket by every term in the second **B1**

Answer: D) x^2 + 4x + 4

Question 7

A cao ($3x^2$ - 6x); multiply each term in the bracket **B1**

Answer: A) $3x^2$ - 6x

Question 8

C cao (4x(3x + 2)); take out the highest common factor, including x **B1**

Answer: C) 4x(3x + 2)

Question 9

A cao (w = A / 8 - 9); undo the operations in the reverse order **B1**

Answer: A) w = A / 8 - 9

Question 10

D cao (x = 7, y = 2); eliminate one letter, solve, then substitute back **B1**

Answer: D) x = 7, y = 2

Question 11

B cao (x < 7); solve like an equation **B1**

Answer: B) x < 7

Question 12

E cao (x = -15); do the same to both sides **B1**

Answer: E) x = -15

Question 13

A cao (x = -2 or x = 6); factorise, then set each bracket to zero **B1**

Answer: A) x = -2 or x = 6

Question 14

E cao (-25); substitute x = -5 and y = 2, using brackets for negatives **B1**

Answer: E) -25

Question 15

C cao (-2x + 13y); collect each type of term **B1**

Answer: C) -2x + 13y

Question 16

B cao (x^2 + 11x + 24); multiply every term in the first bracket by every term in the second **B1**

Answer: B) x^2 + 11x + 24

Question 17

D cao (18x + 6); expand both brackets then collect; take care with the minus **B1**

Answer: D) 18x + 6

Question 18

A cao ((x + 9)(x + 1)); two numbers with sum b and product c **B1**

Answer: A) (x + 9)(x + 1)

Question 19

A cao (t = (A + 5) / 9); undo the operations in the reverse order **B1**

Answer: A) t = (A + 5) / 9

Question 20

B cao (x = 2, y = 6); eliminate one letter, solve, then substitute back **B1**

Answer: B) x = 2, y = 6

Question 21

E cao (x > -8); solve like an equation; reverse the sign when dividing by a negative **B1**

Answer: E) x > -8

Question 22

D cao (x = -5); do the same to both sides **B1**

Answer: D) x = -5

Question 23

C cao (x = -4 or x = 2); factorise, then set each bracket to zero **B1**

Answer: C) x = -4 or x = 2

Question 24

D cao (17x + 11y - 1); collect each type of term **B1**

Answer: D) 17x + 11y - 1

Question 25

C cao (217); substitute x = -5 and y = 2, using brackets for negatives **B1**

Answer: C) 217

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Question 26

D cao (-4x + 8y - 3); collect each type of term **B1**

Answer: D) -4x + 8y - 3

Question 27

E cao (x^2 + 7x + 12); multiply every term in the first bracket by every term in the second **B1**

Answer: E) x^2 + 7x + 12

Question 28

B cao (2(x + 3)(x - 5)); take out the common factor, then factorise the quadratic **B1**

Answer: B) 2(x + 3)(x - 5)

Question 29

D cao (x = 4(v - 7)); undo the operations in the reverse order **B1**

Answer: D) x = 4(v - 7)

Question 30

A cao (x = 3, y = 3); eliminate one letter, solve, then substitute back **B1**

Answer: A) x = 3, y = 3

Question 31

E cao (x > -2); solve like an equation **B1**

Answer: E) x > -2

Question 32

C cao (x = -20); do the same to both sides **B1**

Answer: C) x = -20

Question 33

B cao (x = -1 or x = 7); factorise, then set each bracket to zero **B1**

Answer: B) x = -1 or x = 7

Question 34

C cao (x^2 + 10x + 21); multiply every term in the first bracket by every term in the second **B1**

Answer: C) x^2 + 10x + 21

Question 35

B cao (109); substitute x = -5 and y = 4, using brackets for negatives **B1**

Answer: B) 109

Question 36

C cao (13x + 4y); collect each type of term **B1**

Answer: C) 13x + 4y

Question 37

E cao (x^2 - 13x + 40); multiply every term in the first bracket by every term in the second **B1**

Answer: E) x^2 - 13x + 40

Question 38

A cao (-5x + 20); expand both brackets then collect; take care with the minus **B1**

Answer: A) -5x + 20

Question 39

D cao (6(4x + 1)); take out the highest common factor **B1**

Answer: D) 6(4x + 1)

Question 40

D cao (x = (T + 7) / 6); undo the operations in the reverse order **B1**

Answer: D) x = (T + 7) / 6

Question 41

E cao (x = 8, y = 3); eliminate one letter, solve, then substitute back **B1**

Answer: E) x = 8, y = 3

Question 42

A cao (x > -5); solve like an equation; reverse the sign when dividing by a negative **B1**

Answer: A) x > -5

Question 43

C cao (x = -5); do the same to both sides **B1**

Answer: C) x = -5

Question 44

B cao (x = -7 or x = 8); factorise, then set each bracket to zero **B1**

Answer: B) x = -7 or x = 8

Question 45

E cao (-11x + 1); expand both brackets then collect; take care with the minus **B1**

Answer: E) -11x + 1

Question 46

E cao (-26); substitute x = -1 and y = -5, using brackets for negatives **B1**

Answer: E) -26

Question 47

C cao (9x + 10y + 5); collect each type of term **B1**

Answer: C) 9x + 10y + 5

Question 48

B cao (x^2 + 9x + 14); multiply every term in the first bracket by every term in the second **B1**

Answer: B) x^2 + 9x + 14

Question 49

A cao ($2x^2$ + 4x); multiply each term in the bracket **B1**

Answer: A) $2x^2$ + 4x

Question 50

D cao ((x - 5)(x - 9)); two numbers with sum b and product c **B1**

Answer: D) (x - 5)(x - 9)

Question 51

C cao (t = 5(C - 4)); undo the operations in the reverse order **B1**

Answer: C) t = 5(C - 4)

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Question 52

E cao (x = 7, y = 5); eliminate one letter, solve, then substitute back **B1**

Answer: E) x = 7, y = 5

Question 53

B cao (x < -7); solve like an equation **B1**

Answer: B) x < -7

Question 54

C cao (x = -8); do the same to both sides **B1**

Answer: C) x = -8

Question 55

C cao ((x + 7)(x + 2)); two numbers with sum b and product c **B1**

Answer: C) (x + 7)(x + 2)

Question 56

B cao (n = (P + 8) / 3); undo the operations in the reverse order **B1**

Answer: B) n = (P + 8) / 3

Question 57

D cao (x = 4, y = -1); eliminate one letter, solve, then substitute back **B1**

Answer: D) x = 4, y = -1

Question 58

A cao (x > -8); solve like an equation **B1**

Answer: A) x > -8

Question 59

A cao (x = -8); do the same to both sides **B1**

Answer: A) x = -8

Question 60

B cao (x = -8 or x = -7); factorise, then set each bracket to zero **B1**

Answer: B) x = -8 or x = -7

Question 61

E cao (5); substitute x = -2 and y = 3, using brackets for negatives **B1**

Answer: E) 5

Question 62

D cao (-4x + y + 8); collect each type of term **B1**

Answer: D) -4x + y + 8

Question 63

C cao (x^2 + 10x + 25); multiply every term in the first bracket by every term in the second **B1**

Answer: C) x^2 + 10x + 25

Question 64

D cao (6x - 36); multiply each term in the bracket **B1**

Answer: D) 6x - 36

Question 65

A cao ((x + 1)(x + 8)); two numbers with sum b and product c **B1**

Answer: A) (x + 1)(x + 8)

Question 66

B cao (x = 7(Q - 9)); undo the operations in the reverse order **B1**

Answer: B) x = 7(Q - 9)

Question 67

C cao (x = 4, y = -2); eliminate one letter, solve, then substitute back **B1**

Answer: C) x = 4, y = -2

Question 68

E cao (x < 10); solve like an equation **B1**

Answer: E) x < 10

Question 69

D cao (x = 2); do the same to both sides **B1**

Answer: D) x = 2

Question 70

B cao (x = 6 or x = 7); factorise, then set each bracket to zero **B1**

Answer: B) x = 6 or x = 7

Question 71

E cao (-4); substitute x = -4 and y = 2, using brackets for negatives **B1**

Answer: E) -4

Question 72

A cao (x + 14y); collect each type of term **B1**

Answer: A) x + 14y

Question 73

C cao (x^2 - 12x + 35); multiply every term in the first bracket by every term in the second **B1**

Answer: C) x^2 - 12x + 35

Question 74

D cao (22x - 4); expand both brackets then collect **B1**

Answer: D) 22x - 4

Question 75

A cao (7(3x + 4)); take out the highest common factor **B1**

Answer: A) 7(3x + 4)

Question 76

C cao (m = (v + 8) / 6); undo the operations in the reverse order **B1**

Answer: C) m = (v + 8) / 6

Question 77

E cao (x = -6, y = -5); eliminate one letter, solve, then substitute back **B1**

Answer: E) x = -6, y = -5

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Question 78

B cao (x > 1); solve like an equation; reverse the sign when dividing by a negative **B1**

Answer: B) x > 1

Question 79

D cao (x = -6); do the same to both sides **B1**

Answer: D) x = -6

Question 80

B cao (x = -7 or x = -2); factorise, then set each bracket to zero **B1**

Answer: B) x = -7 or x = -2

Question 81

E cao (159); substitute x = -4 and y = 5, using brackets for negatives **B1**

Answer: E) 159

Question 82

A cao (6x - 6y - 2); collect each type of term **B1**

Answer: A) 6x - 6y - 2

Question 83

C cao (x^2 + 16x + 64); multiply every term in the first bracket by every term in the second **B1**

Answer: C) x^2 + 16x + 64

Question 84

A cao (20x - 20); expand both brackets then collect **B1**

Answer: A) 20x - 20

Question 85

D cao ((x + 11)(x - 11)); difference of two squares **B1**

Answer: D) (x + 11)(x - 11)

Question 86

C cao (t = 5(y - 5)); undo the operations in the reverse order **B1**

Answer: C) t = 5(y - 5)

Question 87

E cao (x = -4, y = -5); eliminate one letter, solve, then substitute back **B1**

Answer: E) x = -4, y = -5

Question 88

B cao (x > -7); solve like an equation **B1**

Answer: B) x > -7

Question 89

B cao (x = -7 or x = -3); factorise, then set each bracket to zero **B1**

Answer: B) x = -7 or x = -3

Question 90

D cao (-10); substitute x = -2 and y = 1, using brackets for negatives **B1**

Answer: D) -10

Question 91

C cao (10x - 2y); collect each type of term **B1**

Answer: C) 10x - 2y

Question 92

A cao (x^2 - 9x + 18); multiply every term in the first bracket by every term in the second **B1**

Answer: A) x^2 - 9x + 18

Question 93

B cao (-45); expand both brackets then collect; take care with the minus **B1**

Answer: B) -45

Question 94

E cao ((x - 7)(x + 3)); two numbers with sum b and product c **B1**

Answer: E) (x - 7)(x + 3)

Question 95

E cao (m = (A - 7) / 9); undo the operations in the reverse order **B1**

Answer: E) m = (A - 7) / 9

Question 96

D cao (x = -4, y = 4); eliminate one letter, solve, then substitute back **B1**

Answer: D) x = -4, y = 4

Question 97

C cao (x < -8); solve like an equation **B1**

Answer: C) x < -8

Question 98

A cao (x = 5); do the same to both sides **B1**

Answer: A) x = 5

Question 99

B cao (x = -8 or x = -2); factorise, then set each bracket to zero **B1**

Answer: B) x = -8 or x = -2

Question 100

(a) 4x + 8 = 2x + 18 (both brackets expanded) **M1**

(a) 2x = 10 (unknowns and numbers correctly collected) **M1**

(a) x = 5 cao **A1**

(a) Answer: x = 5

(b) 2x = 16 seen **M1**

(b) x = 8 cao **A1**

(b) Answer: x = 8

Question 101

C cao (40); substitute x = -4 and y = -3, using brackets for negatives **B1**

Answer: C) 40

Question 102

D cao (2x + 12y - 4); collect each type of term **B1**

Answer: D) 2x + 12y - 4

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Question 103

A cao ($x^2 + 12x + 27$); multiply every term in the first bracket by every term in the second **B1**

Answer: A) $x^2 + 12x + 27$

Question 104

E cao (32x + 48); multiply each term in the bracket **B1**

Answer: E) 32x + 48

Question 105

A cao ((x - 3)(x + 8)); two numbers with sum b and product c **B1**

Answer: A) (x - 3)(x + 8)

Question 106

E cao (m = 3(v - 9)); undo the operations in the reverse order **B1**

Answer: E) m = 3(v - 9)

Question 107

D cao (x = -3, y = -1); eliminate one letter, solve, then substitute back **B1**

Answer: D) x = -3, y = -1

Question 108

C cao (x < 2); solve like an equation **B1**

Answer: C) x < 2

Question 109

B cao (x = 28); do the same to both sides **B1**

Answer: B) x = 28

Question 110

E cao (x = -6 or x = -3); factorise, then set each bracket to zero **B1**

Answer: E) x = -6 or x = -3

Question 111

C cao (-20); substitute x = -1 and y = 5, using brackets for negatives **B1**

Answer: C) -20

Question 112

A cao (x + y); collect each type of term **B1**

Answer: A) x + y

Question 113

B cao ($x^2 + 3x - 4$); multiply every term in the first bracket by every term in the second **B1**

Answer: B) $x^2 + 3x - 4$

Question 114

D cao ($9x^2 - 45x$); multiply each term in the bracket **B1**

Answer: D) $9x^2 - 45x$

Question 115

A cao ((x + 7)(x - 2)); two numbers with sum b and product c **B1**

Answer: A) (x + 7)(x - 2)

Question 116

B cao (w = (y - 4) / 9); undo the operations in the reverse order **B1**

Answer: B) w = (y - 4) / 9

Question 117

C cao (x = 7, y = -6); eliminate one letter, solve, then substitute back **B1**

Answer: C) x = 7, y = -6

Question 118

E cao (x > 4); solve like an equation **B1**

Answer: E) x > 4

Question 119

D cao (x = 1); do the same to both sides **B1**

Answer: D) x = 1

Question 120

D cao (x = -6 or x = 1); factorise, then set each bracket to zero **B1**

Answer: D) x = -6 or x = 1

Question 121

A cao (0); substitute x = -2 and y = 3, using brackets for negatives **B1**

Answer: A) 0

Question 122

C cao (-3x + 4y + 8); collect each type of term **B1**

Answer: C) -3x + 4y + 8

Question 123

E cao ($x^2 + 3x + 2$); multiply every term in the first bracket by every term in the second **B1**

Answer: E) $x^2 + 3x + 2$

Question 124

B cao (18x - 42); multiply each term in the bracket **B1**

Answer: B) 18x - 42

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