Edexcel GCSEMathematics (Linear) – 1MA0

ALGEBRA: COLLECTING LIKE TERMS

Materials required for examination Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser.

Tracing paper may be used.

Items included with question papers



Instructions

Use black ink or ball-point pen.

Fill in the boxes at the top of this page with your name, centre number and candidate number. Answer all questions.

Answer the questions in the spaces provided – there may be more space than you need. Calculators may be used.

Information

The marks for each question are shown in brackets – use this as a guide as to how much time to spend on **each** question.

Questions labelled with an **asterisk** (*) are ones where the quality of your written communication will be assessed – you should take particular care on these questions with your spelling, punctuation and grammar, as well as the clarity of expression.

Advice

Read each question carefully before you start to answer it.

Keep an eye on the time.

Try to answer every question.

Check your answers if you have time at the end.

- 1. Simplify
 - (i) c + c + c + c
 - (ii) $p \times p \times p \times p$
 - (iii) 3g + 5g
 - (iv) $2r \times 5p$
- **2.** (a) Simplify 5p + 2q 3p 3q
 - (b) Simplify
 - (i) 3g + 5g
 - (ii) $2r \times 5p$

- 3. (a) Simplify y + y
 - (b) Simplify $p^2 + p^2 + p^2$

- 40
- 24
- 89
- (4)
 (Total 4 marks)
- 2p-q (2)
 - 89
 - (2)
 (Total 4 marks)
 - 29....
 - (1)
 (Total 2 marks)

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4.	Simp	γ
	1	-

(a) c + c + c

30

(b) e + f + e + f + e

3e + 2j

(c) 2a + 3a

5a (1)

(d) 2xy + 3xy - xy

4304

(e) 3a + 5b - a + 2b + 8

2a+7b+8 (2) (Total 6 marks)

5. (a) Simplify

 $2x \times y \times 3$

(b) Simplify

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

(c) Simplify

- $y\times y\times y$
- (1)

(Total 4 marks)

(1)

Simplify 5bc + 2bc - 4bc6. (a) 3bc (1) Simplify 4x + 3y - 2x + 2y(b) (2) Simplify $m \times m \times m$ (1) Simplify $3n \times 2p$ (d) 6np (1)(Total 5 marks) 7. Simplify a + a + a + a(a) 4a (1) (b) Simplify $3 \times b \times 4$ (1) Simplify completely 4a + 5b - 2a + b(c) 2a+6b (2) (Total 4 marks) Simplify 2a + 7b - 3b + a8. (a) 39+45 (2) $x^{3} + x^{3}$ (b) Simplify

(1)

(Total 3 marks)

9. (a) Simplify $4p \times 5q$

20pg (1)

(b) Simplify $d \times d \times d \times d$

(1)
(Total 2 marks)

- 10. Simplify
 - (i) 5g 2g
 - (ii) $p \times p$

- 39 (1)
- (1) (Total 2 marks)

2p+4q

- 11. (a) Simplify 3p + 2q p + 2q
 - (b) Simplify $3y^2 y^2$

 - (c) Simplify 5c + 7d 2c 3d
 - (d) Simplify $4p \times 2q$

- $2y^2$
- 3c + 4d
-8.p.q.....
 - (Total 6 marks)

(2)

Simplify
$$d+d+d+d+d$$

$$y^2 + y^2$$

(c) Simplify

(i)
$$3a + 4b - 2a - b$$

(ii)
$$5x^2 + 2x - 3x^2 - x$$

13. (a) Simplify 4x + 7y + 2x - 3y

(b) Simplify 2pq + pq

14. (a) Simplify

(i)
$$e+f+e+f+e$$

(ii)
$$p^2 + p^2 + p^2$$

$$a+3b$$

$$2x^{2} + x$$
(Cotal 6 marks)

$$3e + 2f$$
 (1)

$$3\rho^2$$
(1)
(Total 2 marks)

- 15. (a) Simplify
 - (i) e + f + e + f + e + f + e

4e+3f

(ii) $p^2 + p^2 + p^2$

3p²
(1)
(Total 2 marks)

16. (a) Simplify 2x + 2x

4 X

(b) Simplify 5y - 2y

39 0

(c) Simplify $2 \times 4p$

- <u>p</u>
 - (Total 3 marks)

17. (a) Simplify c + c + c

3c

(b) Simplify $2e \times 3f$

6e f

(c) Simplify 9p + 2t - 2p + 3t

- 7p+5t
 - (Total 4 marks)

