Simplifying an Expression (Questions from Edexcel GCSE Past Papers)

Name: _____

GCSE (1 - 9) Simplifying an Expression	Solutions:

These questions are compiled from *released* Pearson Edexcel GCSE maths exam papers
They contain exam questions from up until the ***Summer 2023*** exam series
More recent exam papers do exist but are withheld for mock exams
As new exam papers are released these worksheets will gradually be updated
The ***most current*** version of these worksheets will always be available at: kennethstafford.co.uk

Question	Where the question appeared	Question	Where the question appeared
1	Edexcel, GCSE, Autumn 2017, Paper 2F, Q3	16	Edexcel, GCSE, Summer 2023, Paper 1F, Q13
2	Edexcel, GCSE, Autumn 2017, Paper 3F, Q2	17	Edexcel, GCSE, Summer 2023, Paper 2F, Q4
3	Edexcel, GCSE, Autumn 2018, Paper 2F, Q7	18	Edexcel, GCSE, Summer 2023, Paper 3F, Q3
4	Edexcel, GCSE, Autumn 2019, Paper 1F, Q13	19	Edexcel, GCSE, November 2022, Paper 1F, Q5
5	Edexcel, GCSE, Autumn 2019, Paper 1F, Q26	20	Edexcel, GCSE, November 2022, Paper 2F, Q14
6	Edexcel, GCSE, Autumn 2020, Paper 2F, Q3	21	Edexcel, GCSE, Summer 2022, Paper 2F, Q21
7	Edexcel, GCSE, Autumn 2020, Paper 3F, Q14		
8	Edexcel, GCSE, Summer 2017, Paper 1F, Q3		
9	Edexcel, GCSE, Summer 2017, Paper 1F, Q3		
10	Edexcel, GCSE, Summer 2017, Paper 2F, Q1		
11	Edexcel, GCSE, Summer 2018, Paper 1F, Q6		
12	Edexcel, GCSE, Summer 2018, Paper 2F, Q20		
13	Edexcel, GCSE, Summer 2018, Paper 3F, Q20		
14	Edexcel, GCSE, Summer 2019, Paper 2F, Q8		
15	Edexcel, GCSE, Summer 2019, Paper 3F, Q9		

Simplifying an Expression (Questions from Edexcel GCSE Past Papers)

1

(a) Simplify $3f \times 5g$

.....

(1)

(b) Simplify $t \times t$

.....

(1)

(c) Simplify $\frac{2n + 6n}{2}$

.....

(1)

(Total for Question 3 is 3 marks)

[Edexcel, GCSE, Autumn 2017, Paper 2F, Q3]

2

Simplify $y + 3y - 2y$

.....

(Total for Question 2 is 1 mark)

[Edexcel, GCSE, Autumn 2017, Paper 3F, Q2]

3

(a) Simplify $3m - m - m + 3m$

.....

(1)

(b) Simplify $2 \times n \times p \times 4$

.....

(1)

(Total for Question 7 is 2 marks)

[Edexcel, GCSE, Autumn 2018, Paper 2F, Q7]

Simplifying an Expression (Questions from Edexcel GCSE Past Papers)

4

(a) Simplify $2a \times 5b$

.....

(1)

(b) Simplify $3x + 2y + 5x - y$

.....

(2)

(Total for Question 13 is 3 marks)

[Edexcel, GCSE, Autumn 2019, Paper 1F, Q13]

5

(a) Simplify $(p^2)^5$

.....

(1)

(b) Simplify $12x^7y^3 \div 6x^3y$

.....

(2)

(Total for Question 26 is 3 marks)

[Edexcel, GCSE, Autumn 2019, Paper 1F, Q26]

6

Simplify $3e - e + 4e$

.....

(Total for Question 3 is 1 mark)

[Edexcel, GCSE, Autumn 2020, Paper 2F, Q3]

7

(a) Simplify $3x + 5y + 2x - 4y$

.....

(2)

(b) Solve $5p + 7 = 22$

$p =$ .....

(2)

(Total for Question 14 is 4 marks)

[Edexcel, GCSE, Autumn 2020, Paper 3F, Q14]

8

(a) Simplify $n^3 \times n^5$

.....

(1)

(b) Simplify $\frac{c^3d^4}{c^2d}$

.....

(2)

(c) Solve $\frac{5x}{2} > 7$

.....

(2)

(Total for Question 23 is 5 marks)

[Edexcel, GCSE, Summer 2017, Paper 1F, Q3]

9

(a) Simplify $7 \times e \times f \times 8$

.....

(1)

(b) Solve $\frac{x}{5} = 2\frac{1}{2}$

$x =$ .....

(1)

(Total for Question 3 is 2 marks)

[Edexcel, GCSE, Summer 2017, Paper 1F, Q3]

10

(a) Simplify $5p - 3p + p$

.....

(1)

(b) Simplify $m^3 + m^3$

.....

(1)

(c) Simplify $10 + 3c + 5d - 7c + d$

.....

(2)

(Total for Question 1 is 4 marks)

[Edexcel, GCSE, Summer 2017, Paper 2F, Q1]

11

(a) Simplify $3 \times 4t$

.....

(1)

(b) Simplify $8a - 3a + 2a$

.....

(1)

(Total for Question 6 is 2 marks)

[Edexcel, GCSE, Summer 2018, Paper 1F, Q6]

12

(a) Simplify $m^3 \times m^4$

.....

(1)

(b) Simplify $(5np^3)^3$

.....

(2)

(c) Simplify $\dfrac{32q^9r^4}{4q^3r}$

.....

(2)

(Total for Question 20 is 5 marks)

[Edexcel, GCSE, Summer 2018, Paper 2F, Q20]

13

Expand and simplify $5(p + 3) - 2(1 - 2p)$

.....

(Total for Question 20 is 2 marks)

[Edexcel, GCSE, Summer 2018, Paper 3F, Q20]

14

(a) Simplify $a \times b \times 7$

.....

(1)

(b) Simplify $y \times y \times y$

.....

(1)

(c) Simplify fully $\dfrac{e \times e \times e \times f}{e \times e \times f \times f}$

.....

(2)

(Total for Question 8 is 4 marks)

[Edexcel, GCSE, Summer 2019, Paper 2F, Q8]

15

Simplify $4e + 6f + 7e - f$

.....

(Total for Question 9 is 2 marks)

[Edexcel, GCSE, Summer 2019, Paper 3F, Q9]

16

(a) Simplify $\frac{15a}{3}$

.....

(1)

(b) Simplify $19 + 5b + 4c - 7b + c$

.....

(2)

(c) Factorise $8d - 6$

.....

(1)

(Total for Question 13 is 4 marks)

[Edexcel, GCSE, Summer 2023, Paper 1F, Q13]

17

Simplify $3 \times 4t$

.....

(Total for Question 4 is 1 mark)

[Edexcel, GCSE, Summer 2023, Paper 2F, Q4]

18

Simplify $m + m + m + m$

.....

(Total for Question 3 is 1 mark)

[Edexcel, GCSE, Summer 2023, Paper 3F, Q3]

19

Simplify $3 \times w \times 5 \times t$

.....

(Total for Question 5 is 1 mark)

[Edexcel, GCSE, November 2022, Paper 1F, Q5]

20

(a) Simplify $4c + 7d + 3c - d$

.....

(2)

[Edexcel, GCSE, November 2022, Paper 2F, Q14]

21

(a) Simplify $(x^3)^5$

.....

(1)

(b) Expand and simplify $4(x + 3) + 7(4 - 2x)$

.....

(2)

(c) Factorise fully $15x^3 + 3x^2y$

.....

(2)

(Total for Question 21 is 5 marks)

[Edexcel, GCSE, Summer 2022, Paper 2F, Q21]