1 (a) Simplify w + w + w + w - w

(1)

(b) Simplify $4 \times a \times 2$

(1)

(c) Simplify $f \times f \times f \times f \times f$

(1)

(d) Simplify 4c + 4h + 5c - 6h

(2)

(e) Factorise 10d + 15

(1)

(f) Make t the subject of e = 7t + g

.....

(Total for Question 1 is 8 marks)

2	(0)	Cim	-1:f-	5 .		1
4 ((a)	\mathbf{o}	plify	\mathcal{IC}	X	а

(d) Simplify 8k + 5m - 2k + 6m

(2)

(Total for Question 2 is 3 marks)

(Total for Question 3 is 3 marks)

(2)

4	4 (a) Simplify $3r \times 5t$	
		(1)
	(Total	for Question 4 is 1 marks)

5 (d) Simplify fully $\frac{n^4 \times n^7}{n^5}$

(2)

(Total for Question 5 is 2 marks)

6	(c)	Simplify	$(4na^2)^3$
v	(C)	Simping	$(+\mu q)$

(Total for Question 6 is 2 marks)

7	(a)	Simplify	6m -	2k +	5m -	- k
	(/				-	

(Total for Question 7 is 2 marks)

r				,
8	(a) Simplify	$10a \times b$		
				(1)

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(Total for Question 8 is 1 marks)

Simplifying Expressions (F) - Algebra

9	(a) Simplify	$3 \times 10d$		
	(b) Simplify	8e + e - 5e		(1)
				(1)
			(Total for Quest	ion 9 is 2 marks)

10 (a) Simplify $w \times w \times w \times w \times w$

(1)

(b) Simplify $5a \times 3c$

(1)

(c) Simplify 3e + 2f - e + 5f

(2)

(d) Solve 5x - 7 = x + 12Show clear algebraic working.

c =

(Total for Question 10 is 7 marks)

(a) Simplify $a \times a \times a \times a$	
	(1)
(b) Simplify $4b \times 5c$	
(c) Simplify $6d + 2e + d - 5e$	(1)
	(2)
	(Total for Question 11 is 4 marks)

12	(a)	Simplify	$(3k^2)^4$
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(b) Simplify
$$(21m^4n) \div (3n^{-5})$$

(2)

(Total for Question 12 is 4 marks)

13 (a) Simplify 10x + 4y + 3x - 6y

(2)

(Total for Question 13 is 2 marks)

$\mathbf{I} = (\alpha) \cup (\alpha)$	14	(a)	Simplify	$(2x^3y^5)^4$
---	----	-----	----------	---------------

(Total for Question 14 is 2 marks)

15 (a) Simplify 6p + 2t + p - 3t

(2)

(Total for Question 15 is 2 marks)

16 (a) Simplify	$a \times a \times a \times a \times a$	
		(1)
(b) Simplify	$8b \times 3c$	
		(1)
		(Total for Question 16 is 2 marks)

17 (a) Simplify 12a + 3a - 7a

(1)

(b) Simplify $8 \times 3b$

(1)

(c) Solve $\frac{c}{3} = 9$

c = (1)

(Total for Question 17 is 3 marks)

18	(a)	Simplify	12g -	8e -	5g +	60
10	(<i>a</i>)	omiping	148	O C	25 1	OC

(Total for Question 18 is 2 marks)

19 (a)	Simplify	\mathcal{C}	X	\mathcal{C}	X	$\boldsymbol{\mathcal{C}}$	X	\mathcal{C}	X	\mathcal{C}	X	\mathcal{C}
---------------	----------	---------------	---	---------------	---	----------------------------	---	---------------	---	---------------	---	---------------

(b) Simplify $2h^3 + 5h^3 - h^3$

(1)

(c) Expand x(x+5)

(1)

(d) Factorise 9y - 12

(1)

Rosanna sells m small bags of marbles and p large bags of marbles.

Each small bag contains 15 marbles.

Each large bag contains 40 marbles.

The total number of marbles that Rosanna sells is T

(e) Write down a formula for T in terms of m and p

(3)

(Total for Question 19 is 7 marks)

20	(a)	Simplify	3c +	5 <i>d</i> –	c +	2d
----	-----	----------	------	--------------	-----	----

(b) Simplify $8e \times 5f$

(1)

(c) Solve 5r - 3 = 8

 $r = \dots (2)$

(Total for Question 20 is 5 marks)

21	(a)	Cimplify	10
41	(a)	Simplify	10y - y

(b) Simplify $3p \times 4p$

(1)

(e) Simplify 8c + 5d - 2c - 3d

(2)

(Total for Question 21 is 4 marks)

(Total for Question 22 is 3 marks)

22 (a) Simplify	$w^{12} \div w^3$	
(b) Simplify	$5m^4p^2\times 2m^3p$	(1)
		(2)

23	(a)	Simplify	$\sqrt{5p}$	\times 9k
	(/		, - r	

(b) Simplify 3e + 2f + 8e - 7f

(2)

(Total for Question 23 is 3 marks)

(Total for Question 24 is 1 marks)

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(Total for Question 25 is 2 marks)

Simplifying Expressions (F) - Algebra

26	(a)	Simpli	fy = 6a	ı×	2c
	(/			-	

(b) Simplify 4d + 3e + d - 5e

(2)

(c) Solve 4x - 7 = 23

 $x = \dots$

(Total for Question 26 is 5 marks)

27 (a) Simplify p + p + p + p

(1)

(b) Simplify 5e + 6f + 7e - 2f

(2)

(Total for Question 27 is 3 marks)