Name:

# GCSE (1-9) <br> <br> Simplifying Algebra 

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## Instructions

- Use black ink or ball-point pen.
- Answer all questions.
- Answer the questions in the spaces provided
- there may be more space than you need.
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- You must show all your working out.


## 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.


## 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 $3 x+4 x-2 x$

2 Simplify $3 m+3 m$

3 Simplify $n+n+n$

4 (a) Simplify $a \times b \times c$
(b) Simplify $5 p-2 p$
(c) Simplify $\frac{6 h}{3}$

5 Simplify $k+k+8$

6 (a) Simplify $4 \times 3 x$
$\qquad$
(b) Simplify $7 a-3 a+6 a$
$7 \quad$ Simplify $\quad 8 g+6 h-3 g+h$
$8 \quad$ (a) Simplify $3 \times b \times 9$
(b) Simplify $2 x-3 y-6 x-4 y$
$9 \quad$ Simplify $\quad 8 c+3 d-c+2 d$

10 (a) Simplify $f+f+f+f+f$
$\qquad$
(b) Simplify $5 a+3 b+2 a+2 b$
$\qquad$

11 (a) Simplify $2 a \times 3 b$
$\qquad$
(b) Simplify $2 p \times 2 p$
$\qquad$
(c) Simplify $\frac{7 x+5 x}{4}$

12 Simplify $11 c-8 d+5 c-d$

13 (a) Simplify $3 a \times 4 b$
$\qquad$
(b) Simplify $3 x+2 y+6 x-y$
$\qquad$

14 (a) Simplify $a \times b \times 3$
$\qquad$
(b) Simplify $y \times y \times y$
$\qquad$
(c) Simplify $\frac{10 d}{d}$

15 (a) Simplify $a \times 2 \times 5$
$\qquad$
(b) Simplify $b \times b$
$\qquad$
(c) Simplify $\frac{2 y+6 y}{2}$
$\qquad$

16 (a) Simplify $2 t \times 7 s$
$\qquad$
(b) Simplify $7 a+4 b-3 a-5 b$

17 (a) Simplify $6 f-f$
$\qquad$
(b) Simplify $7 x^{2}-3 x+3 x^{2}+6 x$

18 Simplify $2 \times n \times 6 \times m$

19 (a) Simplify $6 j \times 5 k$
$\qquad$
(b) Simplify $7 a-6 b+5 a+4 b$

20 (a) Simplify $4 n-3 n+5 n$
$\qquad$
(b) Simplify $p^{2}+p^{2}+p^{2}$
(c) Simplify $5+2 a+7 b-6 a+b$

21 (a) Simplify $a^{2}+a^{2}+a^{2}$
$\qquad$
(b) Simplify $2 r s-5 r s+4 r s$
$\qquad$
(c) Simplify $4 a+2-7 a+a-6$

22 (a) Simplify $n+n+n-n$
$\qquad$
(b) Simplify $3 x y+2 x y-x y$
$\qquad$

