



## UNDERSTANDING ALGEBRA

### COLLECTING LIKE TERMS: MULTIPLE VARIABLES

Ref: G213. **2S1**

<b>A1</b> Simplify: $4c + 8d + 5c + 3d$	<b>A2</b> Simplify: $3d + 2c + 3d + 7c$	<b>A3</b> Simplify: $3c + 6d + 4d + 5c$	<b>A4</b> Simplify: $8c + 5d + 3c + 4c$
<b>B1</b> Simplify: $7e + 7f + 3e - 3f$	<b>B2</b> Simplify: $7f + 9e + 2f - 5e$	<b>B3</b> Simplify: $9f + 7e - 4f + 5e$	<b>B4</b> Simplify: $7e + 5f - 3f + 7e$
<b>C1</b> Simplify: $5g + 8 + 5g - 4$	<b>C2</b> Simplify: $4h + 6 - 3h - 3$	<b>C3</b> Simplify: $3 + 9g + 6 - 6g$	<b>C4</b> Simplify: $7h - 3 - 2h + 6$
<b>D1</b> Simplify: $6j + 7 + 5 - 3j$	<b>D2</b> Simplify: $k + 4j + 2k - k$	<b>D3</b> Simplify: $6k - k + 5 - 3j$	<b>D4</b> Simplify: $7 + 5j - j + 3$
<b>E1</b> Simplify: $7m + 3n - 7m - n$	<b>E2</b> Simplify: $8m - 5m + 2 - 2m$	<b>E3</b> Simplify: $5n - n + 3m - m$	<b>E4</b> Simplify: $9n + 7 + 2n - n + 3$



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Ref: G213. **2S1**

<b>A1</b> Simplify: $\underline{4c+8d+5c+3d}$ $9c+11d$	<b>A2</b> Simplify: $\underline{3d+2c+3d+7c}$ $6d+9c \quad \text{or} \quad 9c+6d$	<b>A3</b> Simplify: $\underline{3c+6d+4d+5c}$ $8c+10d$	<b>A4</b> Simplify: $\underline{8c+5d+3c+4c}$ $15c+5d$
<b>B1</b> Simplify: $\underline{7e+7f+3e-3f}$ $10e+4f$	<b>B2</b> Simplify: $\underline{7f+9e+2f-5e}$ $9f+4e \quad \text{or} \quad 4e+9f$	<b>B3</b> Simplify: $\underline{9f+7e-4f+5e}$ $5f+12e \quad \text{or} \quad 12e+5f$	<b>B4</b> Simplify: $\underline{7e+5f-3f+7e}$ $14e+2f$
<b>C1</b> Simplify: $\underline{5g+8+5g-4}$ $10g+4$	<b>C2</b> Simplify: $\underline{4h+6-3h-3}$ $h+3$	<b>C3</b> Simplify: $\underline{3+9g+6-6g}$ $3g+9 \quad \text{or} \quad 9+3g$	<b>C4</b> Simplify: $\underline{7h-3-2h+6}$ $5h+3$
<b>D1</b> Simplify: $\underline{6j+7+5-3j}$ $3j+12$	<b>D2</b> Simplify: $\underline{k+4j+2k-k}$ $2k+4j \quad \text{or} \quad 4j+2k$	<b>D3</b> Simplify: $\underline{6k-k+5-3j}$ $5k-3j+5$	<b>D4</b> Simplify: $\underline{7+5j-j+3}$ $4j+10 \quad \text{or} \quad 10+4j$
<b>E1</b> Simplify: $\underline{7m+3n-7m-n}$ $2n$	<b>E2</b> Simplify: $\underline{8m-5m+2-2m}$ $m+2$	<b>E3</b> Simplify: $\underline{5n-n+3m-m}$ $4n+2m \quad \text{or} \quad 2m+4n$	<b>E4</b> Simplify: $\underline{9n+7+2n-n+3}$ $10n+10$