



# Solutions Key

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### Ordering:

$A - B$ : A precedes B

$A \begin{matrix} / B \\ \backslash C \end{matrix}$ : A precedes both B and C

$A|B$ : A or B can occupy the slot

$A - B$  or  $\begin{matrix} B \\ A \end{matrix}$ : A does not come after B

$A|B - B|A$ : exactly one variable is between A and B

$AB$ : A immediately precedes B

$\cancel{AB}$ : A does not immediately precede B

$AB$ : A and B occupy consecutive horizontal slots

$\cancel{AB}$ : A and B do not occupy consecutive horizontal slots

$\begin{matrix} A \\ B \end{matrix}$ : A and B occupy positions in the same row (for games with vertical differentiation)

$ABC$ : B is flanked by both A and C (unless otherwise noted)

### Grouping:

$A|B$ : A or B can occupy the slot

$A \longrightarrow B$ : if A, then B

$\sim A \longrightarrow \sim B$ : if not A, then not B

$\sim A \longrightarrow B$ : if not A, then B (note: this means that at least one of A and B must be selected)

$A \longleftrightarrow B$ : both A and B or neither A nor B

$A \longrightarrow \sim B$ : if A, then not B (note: this means that A and B cannot both be selected)

.....: a variable may or may not occupy the slot

$\begin{matrix} A \\ B \end{matrix}$ : A and B occupy the same group

$\cancel{\begin{matrix} A \\ B \end{matrix}}$ : A and B do not occupy the same group