

Algebra Sort

Sort these cards into 5 matching sets of 3. Each set should contain two equivalent expressions and a diagram to show why they are equivalent. Complete the last set.

$7 \times (30 + 4)$	$5(4p - 1)$
$4p^2 + 20p$	$3 \begin{array}{ c c } \hline 4 & 7 \\ \hline 4 \times 3 & 7 \times 3 \\ \hline \end{array}$
$7 \begin{array}{ c c } \hline 30 & 4 \\ \hline 7 \times 30 & 7 \times 4 \\ \hline \end{array}$	$4(p + 5)$
$4p + 20$	$30 \times 7 + 7 \times 4$
$4 \begin{array}{ c c } \hline p & 5 \\ \hline 4p & 20 \\ \hline \end{array}$	$(7 + 4) \times 3$
$4p(p + 5)$	$4p \begin{array}{ c c } \hline 5 & p \\ \hline 20p & 4p^2 \\ \hline \end{array}$
$3 \times 4 + 3 \times 7$	$(p + 4)(p + 5)$
$5 \begin{array}{ c c } \hline 4p & -1 \\ \hline 20p & -5 \\ \hline \end{array}$	$20p - 5$