Fill In The Blanks…

**Expanding Double Brackets**

|  |  |  |  |
| --- | --- | --- | --- |
| **Double Brackets Form** | **Grid** | **Expanded Form** | **Simplified Expanded Form** |
| $$(x+2)(x+3)$$ | $$×$$ | $$x$$ | $$+2$$ | $$x^{2}+2x+3x+6$$ |  |
| $$x$$ | $$x^{2}$$ | $$+2x$$ |
| $$+3$$ | $$+3x$$ | $$+6$$ |
| $$(x+7)(x+4)$$ | $$×$$ | $$x$$ | $$+7$$ |  |  |
| $$x$$ | $$x^{2}$$ | $$+7x$$ |
| $$+4$$ | $$+4x$$ | $$+28$$ |
| $$(x+6)(x+2)$$ | $$×$$ | $$x$$ | $$+6$$ |  |  |
| $$x$$ |  |  |
| $$+2$$ |  |  |
| $$(x+5)(x-3)$$ | $$×$$ | $$x$$ | $$+5$$ |  |  |
| $$x$$ |  |  |
| $$-3$$ | $$-3x$$ | $$-15$$ |
| $$(x-4)(x+9)$$ | $$×$$ | $$x$$ | $$-4$$ |  |  |
| $$x$$ |  |  |
| $$+9$$ |  |  |
| $$(x+1)(x-3)$$ | $$×$$ | $$x$$ | $$+1$$ |  |  |
| $$x$$ |  |  |
| $$-3$$ |  |  |
| **Double Brackets Form** | **Grid** | **Expanded Form** | **Simplified Expanded Form** |
| $$(x-5)(x+2)$$ | $$×$$ | $$x$$ | $$-5$$ |  |  |
| $$x$$ |  |  |
| $$+2$$ |  |  |
| $$(x-4)(x-6)$$ | $$×$$ | $$x$$ | $$-4$$ |  |  |
| $$x$$ |  | $$-4x$$ |
| $$-6$$ | $$-6x$$ | $$+24$$ |
| $$(x-1)(x-7)$$ | $$×$$ | $$x$$ | $$-1$$ |  |  |
| $$x$$ |  |  |
| $$-7$$ |  |  |
| $$(x-5)(x-8)$$ | $$×$$ | $$x$$ | $$-5$$ |  |  |
| $$x$$ |  |  |
| $$-8$$ |  |  |
|  | $$×$$ |  |  | $$x^{2}+5x+6x+30$$ |  |
|  |  |  |
|  |  |  |
|  | $$×$$ |  |  | $$x^{2}+7x-3x-21$$ |  |
|  |  |  |
|  |  |  |
|  | $$×$$ |  |  |  | $$x^{2}+11x+24$$ |
|  |  |  |
|  |  |  |