|  |  |
| --- | --- |
| **Fill in the Blanks** | **Factorising Quadratics using a Grid** |

|  |  |  |  |
| --- | --- | --- | --- |
| **Quadratic Expression** | **Expanded Expression** | **Grid** | **Factorised Expression** |
| $$x^{2}+9x+20$$ | $$x^{2}+5x+4x+20$$ |

|  |  |  |
| --- | --- | --- |
| $$×$$ | $$x$$ | $$+5$$ |
| $$x$$ | $$x^{2}$$ | $$+5x$$ |
| $$+4$$ | $$+4x$$ | $$+20$$ |

 | $$(x+5)(x+4)$$ |
| $$x^{2}+12x+27$$ | $$x^{2}+9x+3x+27$$ |

|  |  |  |
| --- | --- | --- |
| $$×$$ |  |  |
|  | $$x^{2}$$ | $$+9x$$ |
|  | $$+3x$$ | $$+27$$ |

 |  |
| $$x^{2}+7x+12$$ | $$x^{2}+4x+3x+12$$ |

|  |  |  |
| --- | --- | --- |
| $$×$$ |  |  |
|  |  |  |
|  |  |  |

 |  |
| $$x^{2}-8x+15$$ |  |

|  |  |  |
| --- | --- | --- |
| $$×$$ |  |  |
|  | $$x^{2}$$ | $$-3x$$ |
|  |  | $$+15$$ |

 |  |
| $$x^{2}+4x-12$$ |  |

|  |  |  |
| --- | --- | --- |
| $$×$$ |  |  |
|  | $$x^{2}$$ |  |
|  | $$-2x$$ | $$-12$$ |

 |  |
| $$x^{2}+3x-10$$ |  |

|  |  |  |
| --- | --- | --- |
| $$×$$ |  |  |
|  | $$x^{2}$$ | $$+5x$$ |
|  |  | $$-10$$ |

 |  |
| $$x^{2}-8x-9$$ |  |

|  |  |  |
| --- | --- | --- |
| $$×$$ |  |  |
|  | $$x^{2}$$ |  |
|  | $$-9x$$ | $$-9$$ |

 |  |