****Factorising Monic Quadratics GREEN

Fill in the factorised answers:

|  |  |
| --- | --- |
| **Question** | **Answer** |
| $$x²+8x+12$$ |  |
| $$x²+14x+48$$ |  |
| $$x²+15x+56$$ |  |
| $$x²-12x+27$$ |  |
| $$x²-3x+2$$ |  |
| $$x²-x-56$$ |  |
| $$x²+4x-21$$ |  |
| $$x²-9x-10$$ |  |
| $$x²-36$$ |  |

****Factorising Monic Quadratics GREEN

Fill in the factorised answers:

|  |  |
| --- | --- |
| **Question** | **Answer** |
| $$x²+8x+12$$ |  |
| $$x²+14x+48$$ |  |
| $$x²+15x+56$$ |  |
| $$x²-12x+27$$ |  |
| $$x²-3x+2$$ |  |
| $$x²-x-56$$ |  |
| $$x²+4x-21$$ |  |
| $$x²-9x-10$$ |  |
| $$x²-36$$ |  |

****Factorising Monic Quadratics AMBER

Use the jumbled-up answers to help you factorise the questions:

|  |  |
| --- | --- |
| **Question** | **Answer** |
| $$x²+8x+12$$ | $$(x-8)(x+7)$$ |
| $$x²+14x+48$$ | $$(x+7)(x+8)$$ |
| $$x²+15x+56$$ | $$(x+6)(x-6)$$ |
| $$x²-12x+27$$ | $$(x-3)(x-9)$$ |
| $$x²-3x+2$$ | $$(x+6)(x+2)$$ |
| $$x²-x-56$$ | $$(x+7)(x-3)$$ |
| $$x²+4x-21$$ | $$(x+6)(x+8)$$ |
| $$x²-9x-10$$ | $$(x-10)(x+1)$$ |
| $$x²-36$$ | $$(x-2)(x-1)$$ |

****Factorising Monic Quadratics AMBER

Use the jumbled-up answers to help you factorise the questions:

|  |  |
| --- | --- |
| **Question** | **Answer** |
| $$x²+8x+12$$ | $$(x-8)(x+7)$$ |
| $$x²+14x+48$$ | $$(x+7)(x+8)$$ |
| $$x²+15x+56$$ | $$(x+6)(x-6)$$ |
| $$x²-12x+27$$ | $$(x-3)(x-9)$$ |
| $$x²-3x+2$$ | $$(x+6)(x+2)$$ |
| $$x²-x-56$$ | $$(x+7)(x-3)$$ |
| $$x²+4x-21$$ | $$(x+6)(x+8)$$ |
| $$x²-9x-10$$ | $$(x-10)(x+1)$$ |
| $$x²-36$$ | $$(x-2)(x-1)$$ |

****Factorising Monic Quadratics RED

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Equation** | **Product**  | **Sum**  | **Factors** | **Signs** | **Answer** |
| $$x²+8x+12$$ | $$+12$$ | $$+8$$ | 1 $12$$2$ $6$$3$ $4$ | $+2$, $+6$ | $$(x+2)(x+6)$$ |
| $$x²+14x+48$$ |  |  |  |  |  |
| $$x²+15x+56$$ |  |  |  |  |  |
| $$x²-12x+27$$ | $$+27$$ | $$-12$$ |  |  |  |
| $$x²-3x+2$$ |  |  |  |  |  |
| $$x²-x-56$$ | $$-56$$ | $$-1$$ |  |  |  |
| $$x²+4x-21$$ |  |  |  |  |  |
| $$x²-9x-10$$ |  |  |  |  |  |
| $$x²-36$$ | $$-36$$ | $$0$$ |  |  |  |