Fill In The Blanks…

**Simultaneous Equations** (same y coefficient)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Question** | **Add or Subtract?** | **Carry out addition or subtraction** | **Work out** $x$ | **Substitute** $x $**into one equation** | **Work out** $y$ | **Check using other equation** | **State both answers** |
| $$3x+y=17$$$$x+y=7$$ | Subtract | $$3x+y=17$$$$- x+y=7 $$$$2x =10$$ | $$x=5$$ | $$3x+y=17$$$$15+y=17$$ | $$y=2$$ | $$x+y=7$$$$5+2=7$$✓ | $$x=5$$$$y=2$$ |
| $$5x+2y=12$$$$3x-2y=4$$ | Add | $$ 5x+2y=12$$$$+ 3x-2y=4 $$$$ 8x =16$$ | $$x=2$$ | $$5x+2y=12$$$$10+2y=12$$$$2y=2$$ |  |  |  |
| $$x-2y=2$$$$4x+2y=18$$ | Add | $$ x-2y=2$$$$+ 4x+2y=18$$$$ $$ |  |  |  |  |  |
| $$4x-3y=18$$$$x-3y=9$$ |  |  |  |  |  |  |  |
| $$x+4y=19$$$$3x+4y=17$$ |  |  |  |  |  |  |  |
| $$2x+y=3$$$$6x-y=17$$ |  |  |  |  |  |  |  |