**Simultaneous Equations Codebreaker**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A | B | C | D | E | F | G | H | I | J | K | L | M |
| $$2.5$$ | $$7$$ | $$-3$$ | $$-1.5$$ | $$1$$ | $$-4$$ | $$3.5$$ | $$-7$$ | $$2$$ | $$-5.5$$ | $$4.5$$ | $$-5$$ | $$6$$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
| $$-2.5$$ | $$-1$$ | $$3$$ | $$9$$ | $$0.5$$ | $$-6$$ | $$5$$ | $$12$$ | $$5.5$$ | $$-3.5$$ | $$-10$$ | $$8$$ | $$-0.5$$ |

Solve the simultaneous equations, link your answers to the table above to reveal why I got fired from the calendar factory:

|  |  |
| --- | --- |
| Solve the simultaneous equations below:$$x+y=7$$$$x+2y=12$$ | Solve the simultaneous equations below:$$a+b=-2$$$$a-2b=1$$ |
| $$x=$$ | $$y=$$ | $$a=$$ | $$b=$$ |
|  |  |  |  |
|  |  |  |  |
| Solve the simultaneous equations below:$$p+q=7$$$$4p+2q=23$$ | Solve the simultaneous equations below:$$x+3y=6$$$$3x-y=-7$$ |
| $$p=$$ | $$q=$$ | $$x=$$ | $$y=$$ |
|  |  |  |  |
|  |  |  |  |
| The sum of two numbers is $7$ and the difference of the same two numbers is $9$. What are the two numbers? | Solve the simultaneous equations below:$$2m-3n=4$$$$3m-2n=-4$$ |
| Larger number:  | Smaller number:  | $$m=$$ | $$n=$$ |
|  |  |  |  |