* **Solutions:**

The linear equations usually have one solution (and of course **only one** **solution**). They are named ***compatible equations.***

But sometimes, they have **no solution**. They are named ***non-compatible equations.***

And you can find too ***identities*** (and not equations), because what we have on the left-hand side of the equal sign is no different to what we have on the right-hand side. This means that the variable can take any value. An identity has **infinite solutions.**

**CAN YOU INVESTIGATE?**

|  |  |
| --- | --- |
| **ONLY ONE SOLUTION** | $$3x+6=0$$ |
| **NO SOLUTION** | $$3x+6=3x-7$$ |
| **INFINITE SOLUTIONS. IDENTITIE** | $$3x+6=3(x+2)$$ |