**E** = Even , **O** = Odd

|  |  |  |
| --- | --- | --- |
| **Addition** | **Subtraction** | **Multiplication** |
| E + E = E | E – E = E | E x E = E |
| E + O = O | E – O or O – E = O | E x O = E |
| O + O = E | O – O = E | O x O = O |

**Division**

When dividing two numbers, there is no guarantee

that one number will divide exactly. If it does not

divide exactly, the result of the division

(called the quotient) will not be a whole number and

so will be neither even nor odd. Even when a number

does divide exactly, so the quotient is a whole

number, there are no simple rules, like that for adding,

subtracting and multiplying.

|  |  |
| --- | --- |
| E / E | maybe even or odd |
| E / O | E |
| O / O | O |
| O / E | An odd number cannot be divided by an even number to give a whole number.  The quotient will be a fraction, which is neither even nor odd. |