**Can you match each word with the correct definition here ?**

|  |  |  |
| --- | --- | --- |
| **Expression** |  | Contains unknowns and can be solved. |
| **Equation** |  | Always true no matter what values are substituted |
| **Formula** |  | Contains unknown value but no equals sign. |
| **Identity** |  | Links one value to one or more other value. |

**Sort the cards below into groups, which are equations, expressions, identities and Formulas?**

|  |  |  |  |
| --- | --- | --- | --- |
| 27 = 6x + 3 | 12x3 = 12 | 3x - 2 | (a + b) = (b + a) |
| xy = yx | 2N + 5 | Formula | 5x - 3 = 15 |
| A = bh | 2x + 3 = 10 | y = mx + c | 2(x +y) = 2x + 2y |
| 6x3 | A = ∏r2 | Identity | 10a + 5b |
| V = ∏r2h | N + 4 = 4 + N | 2a | (a + b)2 = a2 +2ab +b2 |
| 13a = 39 | Expression | P = 2(l + w) | Equation |

|  |  |
| --- | --- |
| Evaluate the expressions using  a = 5, b = -2,  N = 0.5, x = 10 | Solve the Equations. |
| Do you recognise what the Formulas used for? | Show that these Identities work: use an example |