{a : b, c : d} // FullForm
List[Pattern[a, b], Pattern[c, d]]

set = Table[i -> i^2, {i, 10}]
{1 -> 1, 2 -> 4, 3 -> 9, 4 -> 16, 5 -> 25, 6 -> 36, 7 -> 49, 8 -> 64, 9 -> 81, 10 -> 100}

DeleteCases[set, 4 -> _]
{1 -> 1, 2 -> 4, 3 -> 9, 5 -> 25, 6 -> 36, 7 -> 49, 8 -> 64, 9 -> 81, 10 -> 100}

\ is typset as esc-\-esc.

a \ b

a \ b

a_\key_ := DeleteCases[a, key -> _];
a_ \ keys_List := Fold[\#1 \#2 &, a, keys];

(set \ 7) \ 6
{1 -> 1, 2 -> 4, 3 -> 9, 4 -> 16, 5 -> 25, 8 -> 64, 9 -> 81, 10 -> 100}

set \{2, 5\}
{1 -> 1, 3 -> 9, 4 -> 16, 6 -> 36, 7 -> 49, 8 -> 64, 9 -> 81, 10 -> 100}

? MapAt

MapAt[f, expr, n] applies f to the element at position n in expr. If n is negative, the position is counted from the end.
MapAt[f, expr, {i, j, ...}] applies f to the part of expr at position {i, j, ...}.
MapAt[f, expr, {{i1, j1, ...}, {i2, j2, ...}, ...}] applies f to parts of expr at several positions.  

MapAt[f, set, {All, 2}]
{1 -> f[1], 2 -> f[4], 3 -> f[9], 4 -> f[16], 5 -> f[25],
6 -> f[36], 7 -> f[49], 8 -> f[64], 9 -> f[81], 10 -> f[100]}

(R')_{df} // FullForm
Subscript[SuperPlus[R], df]

vf_{mm} // FullForm
Power[Subscript[vf, mm], kk]

(ragag)
ragag

egft[[rwag]]

Part::spec: Part specification rwag is neither a machine-sized integer nor a list of machine-sized integers.  

egft[[rwag]]
\[
\text{R} \mapsto R_{ab}^\text{def} := 9
\]

TagSetDelayed::tagpos: Tag \text{R} in \text{R}_{ab}^\text{def} is too deep for an assigned rule to be found. >$

$\text{Failed}$

\[
(R')_{\text{def}} := 9
\]

\[
R'[a, b] = 9
\]

\[
\{1, 2, 3\} \cup \{3, 4, 5\}
\]

\[
\{1, 2, 3, 4, 5\}
\]

\[
\text{StringLength["u"]}
\]

\[
1
\]

\[
\text{StringLength["\overline{u}"]}
\]

\[
27
\]