Activity Recap: Decode this message!

Here is a breakdown of how much the “Pitter Patter” message was compressed.

**How Much?** 40% compressed!

<table>
<thead>
<tr>
<th>Original:</th>
<th>93 characters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressed:</td>
<td>56 characters</td>
</tr>
<tr>
<td>Difference:</td>
<td><strong>37 characters (~40%)</strong></td>
</tr>
</tbody>
</table>

**Original Message** 93 characters

```
Pitter_patter_pitter_patter_listen_to_the_rain_pitter_patter_pitter_patter_on_the_window-pane
```

**Compressed** 56 characters

```
★listen_to★rain★on★window-pane
```

Total number of characters needed to represent compressed version is:

$$31 \text{ (message)} + 25 \text{ (key)} = 56 \text{ characters}$$