

$$\begin{array}{rcl} 3 \times 400 + 4 \times 20 + (15 + 1) \\ 1296 & = & 1296 \end{array} \quad (13)$$

$$\begin{array}{rcl} 1 \times 400 + 1 \times 20 + (10 + 2) \\ 432 & = & 432 \end{array} \quad (14)$$

$$\begin{array}{rcl} 1 \times 400 \\ 400 & = & 400 \end{array} \quad (15)$$

$$\begin{array}{rcl} 1 \times 8000 \\ 8000 & = & 8000 \end{array} \quad (16)$$

- (b) •  $42 = 2 \times 20 + 2$ : öm-pöhualli-om-öme;  
   •  $494 = 1 \times 400 + 4 \times 20 + 10 + 4$ : cen-tzonli-on-náuh-pöhualli-om-mahtlactli-on-náhui.
- (c) •  $43 = 36 + 6 + 1$ : fete nimbo ngámbi;  
   •  $569 = 2 \times 216 + 3 \times 36 + 4 \times 6 + 5$ : yànparo tarumba yenówe fete asàr tàxwo tambaroy.

**Problem 2.** Structure of the verb form:

- I. — **me-**: affirmative form, present, indicative mood,  
— ROOT,  
— **-pe** ‘really’, **-fe** ‘pretend to’, **-f** ‘be able to’, **-n** — infinitive.

In this part of the word:

1. C + -C > CəC (**de** + **-f** + **-n** > **de-f-ə-n**, **me-** + **bəb** + **-pe** > **me-bəb-ə-pe**).
2. The last syllable receives the stress if it is closed, otherwise the penultimate is stressed (**defən** > **defən**, **mešxepe** > **mešxépe**).
3. CéC(C)e > CáC(C)e (**méšxe** > **mášxe**, **mešxépe** > **mešxápe**).

- II. **-xe** — plural, **-t** — past, **-me** — conditional mood, **-qəm** — negative form.

Answers:

- |     |                       |  |
|-----|-----------------------|--|
| (a) | <b>zéqén</b>          | <i>to bite</i>                         |
|     | <b>medéf</b>          | <i>(he/she) is able to sew</i>         |
|     | <b>medáfe</b>         | <i>(he/she) is pretending to sew</i>   |
|     | <b>səfən</b>          | <i>to be able to burn</i>              |
|     | <b>megʷəš'ə?e</b>     | <i>(he/she) is speaking</i>            |
|     | <b>mebáb</b>          | <i>(he/she) is flying</i>              |
| (b) | <b>çentχʷéfme</b>     | <i>if (he/she) is able to slide</i>    |
|     | <b>šxáfexeqəm</b>     | <i>(they) aren't pretending to eat</i> |
|     | <b>bəbóft</b>         | <i>(he/she) was able to fly</i>        |
|     | <b>šxet</b>           | <i>(he/she) was eating</i>             |
|     | <b>təgʷərəgʷəpeme</b> | <i>if (he/she) really is trembling</i> |

(c) mádexe	<i>(they) are sewing</i>
mebəbófexe	<i>(they) are pretending to fly</i>
sépet	<i>(he/she) really was burning</i>
šxéfqəm	<i>(he/she) isn't able to eat</i>
gʷəš'ě?exeme	<i>if (they) are speaking</i>
mežáqexe	<i>(they) are biting</i>

### Problem 3.

- (a) 1. Leave the first letter in place.  
 2. Delete *h* and *w*.  
 3. Replace all consonant letters with digits (letters whose most common sounds are similar are grouped together):
- |                |                    |           |          |           |          |
|----------------|--------------------|-----------|----------|-----------|----------|
| <i>bpv (f)</i> | <i>cgjkqs (xz)</i> | <i>dt</i> | <i>l</i> | <i>mn</i> | <i>r</i> |
| 1              | 2                  | 3         | 4        | 5         | 6        |
4. Reduce any sequence of two or more identical digits to a single digit.  
 5. Delete all vowels (*a, e, i, o, u, y*).  
 6. Leave only the first three digits or add zeroes on the right to make the code one letter and three digits long.
- (b) *Allaway*: A400, *Anderson*: A536, *Ashcombe*: A251, *Buckingham*: B252, *Chapman*: C155, *Colquhoun*: C425, *Evans*: E152, *Fairwright*: F623, *Kingscott*: K523, *Lewis*: L200, *Littlejohns*: L342, *Stanmore*: S356, *Stubbs*: S312, *Tocher*: T260, *Tonks*: T520, *Whytehead*: W330.
- (c) *Ferguson*: F622, *Fitzgerald*: F326, *Hamnett*: H530, *Keefe*: K100, *Maxwell*: M240, *Razey*: R200, *Shaw*: S000, *Upfield*: U143.

### Problem 4. Rules:

- Word order: V P (S/O); S/O P V Poss, V P Poss; S Poss.
- V = verb (past → future: *-bi* → *-ba*,  $\emptyset$  → *-jba*).
- S = subject (noun). The subject of a transitive verb gets the ending *-ni*.
- O = object (noun).
- P = pronouns (subject + object) + tense:
  - subject:
    - \* 1st *ngV-*,
    - \* 2nd *nyV-*,
  - \* 3rd
    - intransitive verb: *gV-*
    - transitive verb:  $\begin{cases} \text{masculine} & \text{gVnV-} \\ \text{feminine} & \text{ngVyV-;} \end{cases}$
  - object: 1st *-ngV*, 2nd *-nyV*, 3rd  $\emptyset$ ;