

Pačesová, Jaroslava

Tables of vowel and consonant phonemes

In: Pačesová, Jaroslava. *The development of vocabulary in the child*. Vyd. 1. Brno: Universita J.E. Purkyně, 1968, pp. 68-71

Stable URL (handle): <https://hdl.handle.net/11222.digilib/119979>

Access Date: 28. 11. 2024

Version: 20220831

Terms of use: Digital Library of the Faculty of Arts, Masaryk University provides access to digitized documents strictly for personal use, unless otherwise specified.

TABLES OF VOWEL AND CONSONANT PHONEMES

Vowel Phonemes
Positional Occurrences

| Initial | | | Medial | | Final | | Total | | |
|--------------|-----------|--------------|------------|---------------|------------|---------------|------------|----------------|---------------|
| | | | | | | | | vowels | phonemes |
| <i>a</i> | 7 | 6.7 % | 60 | 57.7 % | 37 | 35.6 % | 104 | 34.9 % | 17.6 % |
| <i>e</i> | 1 | 3.8 % | 8 | 30.8 % | 17 | 65.4 % | 26 | 8.7 % | 4.4 % |
| <i>i</i> | 4 | 4.5 % | 41 | 46.1 % | 44 | 49.4 % | 89 | 29.9 % | 15.1 % |
| <i>o</i> | 1 | 4.0 % | 14 | 56.0 % | 10 | 40.0 % | 25 | 8.4 % | 4.2 % |
| <i>u</i> | — | — | 38 | 70.4 % | 16 | 29.6 % | 54 | 18.1 % | 9.2 % |
| Total | 13 | 4.4 % | 161 | 54.0 % | 124 | 41.6 % | 298 | 100.0 % | 50.5 % |

Figure 59

Vowel Phonemes
Tongue Position

| High | | Mid | | Low | | Total | | |
|--------------|------------|---------------|-----------|---------------|------------|---------------|---------------|----------|
| | | | | | | | vowels | phonemes |
| <i>a</i> | | | | 104 | 104 | 34.9 % | 17.6 % | |
| <i>e</i> | | 26 | | | 26 | 8.7 % | 4.4 % | |
| <i>i</i> | 89 | | | | 89 | 29.9 % | 15.1 % | |
| <i>o</i> | | 25 | | | 25 | 8.4 % | 4.2 % | |
| <i>u</i> | 54 | | | | 54 | 18.1 % | 9.2 % | |
| Total | 143 | 48.0 % | 51 | 17.1 % | 104 | 34.9 % | 50.5 % | |

Figure 60

Vowel Phonemes
Points of Articulation

| Front | | Central | | Back | | Total | | |
|--------------|------------|---------------|------------|---------------|-----------|---------------|---------------|----------|
| | | | | | | | vowels | phonemes |
| <i>a</i> | | | 104 | | 104 | 34.9 % | 17.6 % | |
| <i>e</i> | 26 | | | | 26 | 8.7 % | 4.4 % | |
| <i>i</i> | 89 | | | | 89 | 29.9 % | 15.1 % | |
| <i>o</i> | | | | 25 | 24 | 8.4 % | 4.2 % | |
| <i>u</i> | | | | 54 | 54 | 18.1 % | 9.2 % | |
| Total | 115 | 38.6 % | 104 | 34.9 % | 79 | 26.5 % | 50.5 % | |

Figure 61

The Plosive Consonants
Points of Articulation

| | Initial | | Medial | | Final | | Total | |
|--------------|-----------|---------------|-----------|---------------|----------|--------------|------------|----------------|
| Labials | 35 | 52.3 % | 31 | 46.2 % | 1 | 1.5 % | 67 | 39.3 % |
| Alveolars | 16 | 41.0 % | 18 | 46.2 % | 5 | 12.8 % | 39 | 22.9 % |
| Palatals | 9 | 28.1 % | 22 | 68.8 % | 1 | 3.1 % | 32 | 18.9 % |
| Velars | 14 | 43.8 % | 17 | 53.1 % | 1 | 3.1 % | 32 | 18.9 % |
| Total | 74 | 43.5 % | 88 | 51.8 % | 8 | 4.7 % | 170 | 100.0 % |

Figure 62

The Plosive Consonants
(including nasals)
Points of Articulation

| | Initial | | Medial | | Final | | Total | |
|--------------|-----------|---------------|------------|---------------|-----------|--------------|------------|----------------|
| Labials | 47 | 50.0 % | 39 | 41.5 % | 8 | 8.5 % | 94 | 44.8 % |
| Alveolars | 21 | 43.7 % | 22 | 45.9 % | 5 | 10.4 % | 48 | 22.8 % |
| Palatals | 12 | 33.3 % | 23 | 63.9 % | 1 | 2.8 % | 36 | 17.1 % |
| Velars | 14 | 43.7 % | 17 | 53.2 % | 1 | 3.1 % | 32 | 15.3 % |
| Total | 94 | 44.8 % | 101 | 48.1 % | 15 | 7.1 % | 210 | 100.0 % |

Figure 63

The Plosive Consonants
Voiceless versus Voiced

| | Initial | | Medial | | Final | | Total | |
|--------------|-----------|---------------|-----------|---------------|----------|--------------|------------|----------------|
| Voiceless | 57 | 42.8 % | 68 | 51.2 % | 8 | 6.0 % | 133 | 78.3 % |
| Voiced | 17 | 45.9 % | 20 | 54.1 % | — | — | 37 | 21.7 % |
| Total | 74 | 43.5 % | 88 | 51.8 % | 8 | 4.7 % | 170 | 100.0 % |

Figure 64

The Plosive Consonants
(including nasals)
Voiceless versus Voiced

| | Initial | | Medial | | Final | | Total | |
|--------------|-----------|---------------|------------|---------------|-----------|--------------|------------|----------------|
| Voiceless | 57 | 42.8 % | 68 | 51.2 % | 8 | 6.0 % | 133 | 63.3 % |
| Voiced | 37 | 48.0 % | 33 | 42.9 % | 7 | 9.1 % | 77 | 36.7 % |
| Total | 94 | 44.8 % | 101 | 48.1 % | 15 | 7.1 % | 210 | 100.0 % |

Figure 65

The Fricative Consonants
(including affricates)
Points of articulation

| | Initial | | Medial | | Final | | Total | |
|--------------|-----------|---------------|-----------|---------------|----------|--------------|-----------|----------------|
| Labiodentals | — | — | — | — | 2 | 100.0 % | 2 | 2.4 % |
| Alveolars | 8 | 22.9 % | 25 | 71.4 % | 2 | 5.7 % | 35 | 42.7 % |
| Palatals | 4 | 21.1 % | 14 | 73.6 % | 1 | 5.3 % | 19 | 23.2 % |
| Velars | 3 | 75.0 % | 1 | 25.0 % | — | — | 4 | 4.9 % |
| Laryngeal | 18 | 81.8 % | 4 | 18.2 % | — | — | 22 | 26.8 % |
| Total | 33 | 40.2 % | 44 | 53.7 % | 5 | 6.1 % | 82 | 100.0 % |

Figure 66

The Fricative Consonants
(including affricates)
Voiceless versus Voiced

| | Initial | | Medial | | Final | | Total | |
|--------------|-----------|---------------|-----------|---------------|----------|--------------|-----------|----------------|
| Voiceless | 9 | 37.5 % | 11 | 45.8 % | 4 | 16.7 % | 24 | 29.2 % |
| Voiced | 24 | 41.5 % | 33 | 56.8 % | 1 | 1.7 % | 58 | 70.8 % |
| Total | 33 | 40.2 % | 44 | 53.7 % | 5 | 6.1 % | 82 | 100.0 % |

Figure 67

The Consonant Phonemes
Points of Articulation

| | Initial | | Medial | | Final | | Total | |
|--------------|------------|---------------|------------|---------------|-----------|--------------|------------|----------------|
| Bilabials | 47 | 50.0 % | 39 | 41.5 % | 8 | 8.5 % | 94 | 32.2 % |
| Labiodentals | — | — | — | — | 2 | 100.0 % | 2 | 0.7 % |
| Alveolars | 29 | 35.0 % | 47 | 56.6 % | 7 | 8.4 % | 83 | 28.4 % |
| Palatals | 16 | 29.1 % | 37 | 67.3 % | 2 | 3.6 % | 55 | 18.9 % |
| Velars | 17 | 47.2 % | 18 | 50.0 % | 1 | 2.8 % | 36 | 12.3 % |
| Laryngeal | 18 | 81.8 % | 4 | 18.2 % | — | — | 22 | 7.5 % |
| Total | 127 | 43.4 % | 145 | 49.7 % | 20 | 6.9 % | 292 | 100.0 % |

Figure 68

Voiceless versus Voiced

| | Initial | | Medial | | Final | | Total | |
|--------------|------------|---------------|------------|---------------|-----------|--------------|------------|----------------|
| Voiceless | 66 | 42.0 % | 79 | 50.3 % | 12 | 7.7 % | 157 | 53.8 % |
| Voiced | 61 | 45.2 % | 66 | 48.9 % | 8 | 5.9 % | 135 | 46.2 % |
| Total | 127 | 43.4 % | 145 | 49.7 % | 20 | 6.9 % | 292 | 100.0 % |

Figure 69

Manner of Articulation

| | Initial | | Medial | | Final | | Total | |
|--------------|------------|---------------|------------|---------------|-----------|--------------|------------|----------------|
| Stops | 74 | 43.5 % | 88 | 51.8 % | 8 | 4.7 % | 170 | 58.3 % |
| Fricatives | 33 | 40.2 % | 44 | 53.7 % | 5 | 6.1 % | 82 | 28.0 % |
| Nasals | 20 | 50.0 % | 13 | 32.5 % | 7 | 17.5 % | 40 | 13.7 % |
| Total | 127 | 43.5 % | 145 | 49.7 % | 20 | 6.8 % | 292 | 100.0 % |

| | Initial | | Medial | | Final | | Total | |
|--------------|------------|---------------|------------|---------------|-----------|--------------|------------|----------------|
| Stops | 94 | 44.8 % | 101 | 48.1 % | 15 | 7.1 % | 210 | 71.9 % |
| Fricatives | 28 | 39.4 % | 39 | 55.0 % | 4 | 5.6 % | 71 | 24.4 % |
| Affricates | 5 | 45.5 % | 5 | 45.5 % | 1 | 9.0 % | 11 | 3.7 % |
| Total | 127 | 43.5 % | 145 | 49.7 % | 20 | 6.8 % | 292 | 100.0 % |

| | Initial | | Medial | | Final | | Total | |
|--------------|------------|---------------|------------|---------------|-----------|--------------|------------|----------------|
| Stops | 74 | 43.5 % | 88 | 51.8 % | 8 | 4.7 % | 170 | 58.3 % |
| Fricatives | 26 | 45.6 % | 27 | 48.4 % | 4 | 7.0 % | 57 | 19.5 % |
| Affricates | 5 | 45.5 % | 5 | 45.5 % | 1 | 9.0 % | 11 | 3.7 % |
| Nasals | 20 | 50.0 % | 13 | 32.5 % | 7 | 17.5 % | 40 | 13.7 % |
| Lateral | 2 | 14.3 % | 12 | 85.7 % | — | — | 14 | 4.8 % |
| Total | 127 | 43.5 % | 145 | 49.7 % | 20 | 6.8 % | 292 | 100.0 % |

Figure 70