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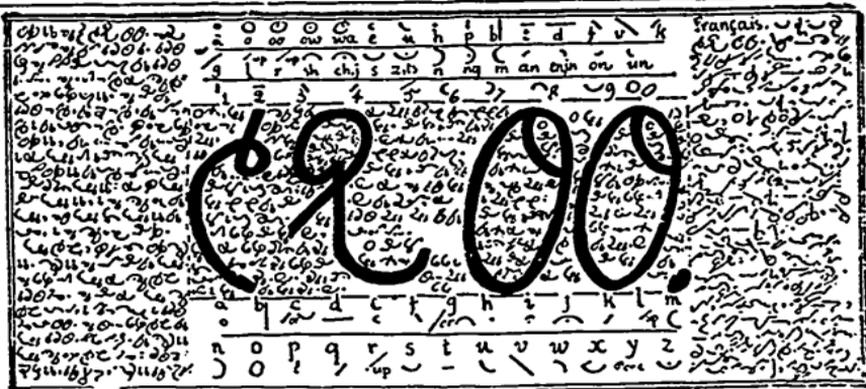
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1.  $\frac{1}{2} \times 100 = 50$

2.  $\frac{1}{4} \times 100 = 25$

3.  $\frac{1}{8} \times 100 = 12.5$

4.  $\frac{1}{16} \times 100 = 6.25$

5.  $\frac{1}{32} \times 100 = 3.125$

6.  $\frac{1}{64} \times 100 = 1.5625$

7.  $\frac{1}{128} \times 100 = 0.78125$

8.  $\frac{1}{256} \times 100 = 0.390625$

9.  $\frac{1}{512} \times 100 = 0.1953125$

10.  $\frac{1}{1024} \times 100 = 0.09765625$

11.  $\frac{1}{2048} \times 100 = 0.048828125$

12.  $\frac{1}{4096} \times 100 = 0.0244140625$

13.  $\frac{1}{8192} \times 100 = 0.01220703125$

14.  $\frac{1}{16384} \times 100 = 0.006103515625$

15.  $\frac{1}{32768} \times 100 = 0.0030517578125$

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1.  $\frac{1}{x^2} = x^{-2}$   
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 8.  $\frac{d}{dx} \frac{1}{x^9} = \frac{d}{dx} x^{-9} = -9x^{-10} = -\frac{9}{x^{10}}$   
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