

# Simple Fraction (Spatial Arrangement) Examples with SimBraille

- ## 1. One-half is written

1  
—  
2

2. x over y is written

$$\frac{x}{y}$$

The Braille representation of the number 100 consists of two lines of Braille dots. The top line contains three columns of three dots each, representing the digit 1. The bottom line contains four columns of three dots each, representing the digits 00.

3. Open fraction  $x$  plus  $y$  over  $x$  minus  $y$  close  
fraction is written

$$\frac{x + y}{x - y}$$

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4. Open fraction  $x$  plus two over  $x$  squared minus  
four close fraction is written

$$\frac{x + 2}{x^2 - 4}$$

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5. Open fraction y sub two minus y sub one over x  
sub two minus x sub one close fraction is  
written

$$\frac{y_2 - y_1}{x_2 - x_1}$$

⋮ ⋮ ⋮ ⋮ ⋮

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6. Open fraction x plus y over open parenthesis x plus y close parenthesis open parenthesis y plus z close parenthesis close fraction equals open fraction one over y plus z is written

$$\frac{x+y}{(x+y)(y+z)} = \frac{1}{y+z}$$

100

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A horizontal row of 12 black dots arranged in a grid pattern. The dots are organized into four columns of three rows each. The first column has dots at positions (1,1), (2,1), and (3,1). The second column has dots at positions (1,2), (2,2), and (3,2). The third column has dots at positions (1,3), (2,3), and (3,3). The fourth column has dots at positions (1,4), (2,4), and (3,4).

100