

Addition af brøker

= $1/2+4/7$ **=**
 $1/2 + 4/7$

Input:

→ $1/2 + 4/7$

$$\frac{1}{2} + \frac{4}{7}$$

Exact result:

Hide steps

$15/14$

$$\frac{15}{14}$$

Possible intermediate steps:

Simplify the following:

$$\frac{1}{2} + \frac{4}{7}$$

Put $\frac{1}{2} + \frac{4}{7}$ over the common denominator 14. $\frac{1}{2} + \frac{4}{7} = \frac{7}{14} + \frac{2 \times 4}{14}$:

$$\frac{7}{14} + \frac{2 \times 4}{14}$$

$2 \times 4 = 8$:

$$\frac{7}{14} + \frac{8}{14}$$

$$\frac{7}{14} + \frac{8}{14} = \frac{7+8}{14}$$

$$\frac{7+8}{14}$$

$7 + 8 = 15$:

Answer:

$$\frac{15}{14}$$

Decimal approximation:

More digits

$N[1/2 + 4/7, 79]$

1.0714285714285714285714285714285714285714285714285714285714285714...

Addition af brøker

Number line:

NumberLinePlot [15 / 14]



Repeating decimal:

RealDigits [15 / 14]

1.0714285 (period 6)

Mixed fraction:

[Hide steps](#)

{IntegerPart [15 / 14], FractionalPart [15 / 14]}

$$1 \frac{1}{14}$$

Possible intermediate steps:

Convert to a mixed number:

$$\frac{15}{14}$$

Divide 15 by 14:

$$1 \ 4 \overline{) 15}$$

14 goes into 15 at most one time:

$$\begin{array}{r} 1 \\ 1 \ 4 \overline{) 15} \\ - \ 1 \ 4 \\ \hline 1 \end{array}$$

Read off the results. The quotient is the number at the top and the remainder is the number at the bottom:

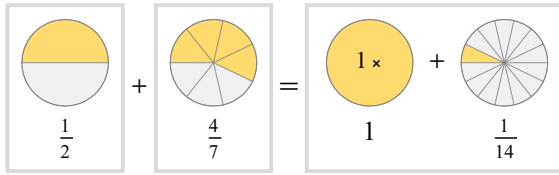
$$\begin{array}{r} 1 \text{ (quotient)} \\ 1 \ 4 \overline{) 15} \\ - \ 1 \ 4 \\ \hline 1 \text{ (remainder)} \end{array}$$

The quotient of $\frac{15}{14}$ is 1 with remainder 1, so:

Answer:

$$1 \frac{1}{14}$$

Pie chart:



Continued fraction:

Linear form

`ContinuedFraction[15 / 14, 100]`

$$1 + \frac{1}{14}$$

Egyptian fraction expansion:

$$1 + \frac{1}{14}$$

Out[22]= $\frac{15}{14}$