## The 1, 3, 4, 6 Challenge

Use the digits $1,3,4$, and 6 to make every number from 1 to 24 .
You must use each digit exactly once.
You can use addition, subtraction, multiplication, division, and parentheses.
For example: $1=1 \times(3+4-6)$ works, but $1=4-3$ doesn't work, since it doesn't include all the digits. And $1=6 \div 6$ doesn't use all the digits and it uses 6 twice, which isn't allowed either.

## $1=1 \times(3+4-6) \quad 7=$

$2=$
$8=$
$3=$
$9=$
$4=$ 10
$5=$
$11=$
$6=$
$12=$

$$
\begin{array}{ll}
13= & 22= \\
14= & 23= \\
15= & \\
16= \\
17= \\
18= \\
19= \\
20= \\
21=
\end{array}
$$

