

The Four Fours Problem

Can you make every number between 1 and 20 using only 4, 4, 4, 4 and any operation?

For example:

1 can be written as $4 \div 4 + (4 - 4)$	20 can be written as $(4 \div 4 + 4) \times 4$
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Note: There may be more than one way to write a number. Also, some numbers cannot be written using four 4s and any operation.

1		11	
2		12	
3		13	
4		14	
5		15	
6		16	
7		17	
8		18	
9		19	
10		20	