

# Scratch 30

Choose any 4 one-digit numbers : \_\_\_\_\_

- Use 2, 3, or 4 of these numbers with any operations to find an answer of 1-30.
- You cannot use a number more than once per expression.
- The numbers chosen from your 4 digit number do not need to be used in order.
- You cannot use an operation (+, -, x, ÷) more than once per expression.
- **Goal:** To eliminate all 30 numbers.

1    2    3    4    5    6    7    8    9    10  
11   12   13   14   15   16   17   18   19   20  
21   22   23   24   25   26   27   28   29   30

Example: 5 8 2 7

$$8 - 5 + 7 \div 2 = 5 \rightarrow \text{cross off 5}$$

$$8 - 7 = 1 \rightarrow \text{cross off 1}$$

$$2 \times 7 - 5 = 11 \rightarrow \text{cross off 11}$$

$$7 \times 2 + 8 = 22 \rightarrow \text{cross off 22}$$

$$7 + 5 - 8 \div 2 = 2 \rightarrow \text{cross off 2}$$

$$8 \times 7 \div 2 = 28 \rightarrow \text{cross off 28}$$

$$5 \times 2 + 7 = 17 \rightarrow \text{cross off 17}$$

$$5 \times 2 + 8 = 18 \rightarrow \text{cross off 18}$$

Continue until you cross out all 30 numbers or until you cannot go any further.

~~1~~   ~~2~~   3   4   ~~5~~   6   7   8   9   10  
~~11~~   12   13   14   15   16   ~~17~~   ~~18~~   19   20  
21   ~~22~~   23   24   25   26   27   ~~28~~   29   30