

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