

# ORDER OF OPERATIONS - B

ORDER OF OPERATIONS	
1. PARENTHESES ( )	↓
2. EXPONENTS $3^2 = 3 \times 3$	
3. MULTIPLICATION AND DIVISION $\times \div$	→
4. ADDITION AND SUBTRACTION $+$ $-$	

## HELPFUL EXAMPLE

1. DIVIDE.
2. MULTIPLY.
3. ADD.

$$16 \div 4 \times 2 + 3$$

$$4 \times 2 + 3$$

$$8 + 3$$

$$11$$

WHY IS DIVISION BEFORE MULTIPLICATION?

ANSWER: 11

USE THE ORDER OF OPERATIONS TO SOLVE EACH PROBLEM.

1.  $16 - 14 \div 2 + 2$       2.  $6 \times 3 - 2 \times 8$       3.  $12 + 14 - 6 \div 2$

$$16 - 7 + 2$$

$$9 + 2$$

$$11$$

$$2$$

$$23$$

4.  $36 \div 3 \times 2 - 5$       5.  $9 \times 5 - 3 + 7$       6.  $26 - 24 \div 4 \times 2$

$$19$$

$$49$$

$$14$$

7.  $6 \times 6 + 24 \div 4$       8.  $42 - 12 + 4 \times 3$       9.  $5 + 2 \times 5 \times 3$

$$42$$

$$42$$

$$35$$

LOOK AT THE LIST. DO PARENTHESES FIRST.

10.  $(8 - 2) \times 5 + 3$       11.  $24 - (8 + 8) \div 4$       12.  $7 \times 6 + (6 \div 2)$

$$6 \times 5 + 3$$

$$30 + 3$$

$$33$$

$$20$$

$$45$$

13.  $5 \times 8 - 5 + 3$       14.  $(8 \div 4) + (3 \times 6)$       15.  $24 - 8 + 8 \div 4$

$$38$$

$$20$$

$$18$$

16.  $5 \times (8 - 5 + 3)$       17.  $40 \div 4 + 6 \div 2$       18.  $40 \div (4 + 6) \div 4$

$$30$$

$$13$$

$$1$$