

## Order of Operations

$$(3 + 2)^2 - 4 \cdot 6 = 2^3$$

1. First do operations under the grouping symbols.

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2. Then evaluate exponents.

3. Then do multiplication and division, left to right.

4. FInally do addition and subtraction left to right.

Fraction bars can act as grouping symbols

## PEMDAS

P: parenthesis

E: exponents

M: multiplication

D: division

A: addition

S: subtraction

When doing multiplication, division, addition, and subtraction work from Left to Right.

Example 1

$$6 \div (3 - 1) \cdot 5$$

$$6 \div (2) \cdot 5$$

$$3 \cdot 5$$

$$15$$

Example 2:

$$16 \div 2 \cdot 6 - 1$$

$$8 \cdot 6 - 1$$

$$48 - 1$$

$$\boxed{47}$$

Example 3:

$$2^2(2 + 3) + 5$$

$$2^2(5) + 5$$

$$4 \cdot 5 + 5$$

$$20 + 5$$

$$\boxed{25}$$

# Word Problems

Brenda is buying some items from the store. She has a list, and while she is shopping, she writes the cost of the items on her list.

2 gallons of milk - \$2.85 each

1 loaf of bread \$1.55 each

Which of the following expressions could be used to find the total cost of the items? Circle all that apply.

3 packages of sandwich meat - \$2.25 each

A.  $2.85 + 2.85 + 1.55 + 2.25 + 2.25 + 2.25 + 1.00$

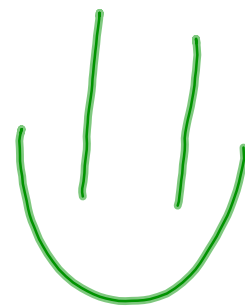
4 tomatoes - 4 for \$1

B.  $2(2.85) + 1.55 + 3(2.25) + 1.00$

C.  $2(2.85 + 1.55) + 3(2.25 + 1.00)$

D.  $2 \cdot 2.85 + 1.55 + 3 \cdot 2.25 + 1.00$

Ricky



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