

Name: Class:

Evaluate numerical expressions with parentheses

Evaluate the following expressions.

a. $2 + (5 \times 20)$.

b. $27 - 19 - (20 \div 4) \times 1$.

c. $(12 \div 2) + (19 - 10)$.

d. $(10 \div 2) + (7 + 9) - 17$.

e. $(2 \times 11 + 2) - (3 \times 6 + 5)$.

f. $10 \times 5 \div 2 + (17 - 2 + 6)$.

g. $(24 \div 4) + (26 - 12)$.

h. $(20 \div 5) + (9 + 12) - 15$.

i. $(2 \times 22 + 5) - (7 \times 3 + 9)$.

j. $12 \times 7 \div 3 + (22 - 5 + 3)$.

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Evaluate numerical expressions with parentheses

Evaluate the following expressions

a. $2 + (5 \times 20)$.

Let's first of all consider the numbers in the parentheses.

$$2 + (5 \times 20) = 2 + 100$$

Finally, let's add $2 + 100$
 $= 102$

$$\text{So, } 2 + (5 \times 20) = 102$$

d. $(10 \div 2) + (7 + 9) - 17$.

Let's first of all consider the numbers in the parentheses.

$$(10 \div 2) + (7 + 9) - 17$$

$$5 + 16 - 17 = 21 - 17$$

Finally, let's subtract.
 $21 - 17 = 4$

$$\text{So, } (10 \div 2) + (7 + 9) - 17 = 4$$

b. $27 - 19 - (20 \div 4) \times 1$.

Let's first of all consider the numbers in the parentheses.

$$27 - 19 - (20 \div 4) \times 1 = 27 - 19 - 5 \times 1$$

Finally, let's subtract.
 $27 - 19 - 5 = 3$

$$\text{So, } 27 - 19 - (20 \div 4) \times 1 = 3$$

e. $(2 \times 11 + 2) - (3 \times 6 + 5)$.

Let's first of all consider the numbers in the parentheses.

$$(2 \times 11 + 2) - (3 \times 6 + 5)$$

$$(24) - (23) = 24 - 23$$

Finally, let's subtract.
 $24 - 23 = 1$

$$\text{So, } (2 \times 11 + 2) - (3 \times 6 + 5) = 1$$

c. $(12 \div 2) + (19 - 10)$.

Let's first of all consider the numbers in the parentheses.

$$(12 \div 2) + (19 - 10) = 6 + 9$$

Finally, let's Add.
 $6 + 9 = 15$

$$\text{So, } (12 \div 2) + (19 - 10) = 15$$

f. $10 \times 5 \div 2 + (17 - 2 + 6)$.

Let's first of all consider the numbers in the parentheses.

$$10 \times 5 \div 2 + (17 - 2 + 6)$$

$$10 \times 5 \div 2 + (21) = 10 \times 5 \div 2 + 21$$

Finally, let's solve the expression normally.
 $10 \times 5 \div 2 + 21 = 46$

$$\text{So, } 10 \times 5 \div 2 + (17 - 2 + 6) = 46$$