Name: ..... Class: .....

Evaluate numerical expressions with parentheses

Evaluate the following expressions

a. 2 + (5 x 20) =

b. 27 - 19 - (20 ÷ 4) x 1

c. (12 ÷ 2) + (19 - 10)

d. (10 ÷ 2) + (7 + 9) - 17

e. (2 x 11 + 2) - (3 x 6 + 5)

f. 10 x 5 ÷ 2 + (17 - 2 + 6)

Solution

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Evaluate numerical expressions with parentheses

Evaluate the following expressions

a. **2 + (5 x 20) =**

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

2 + (5 x 20) = 2 + 100

Finally, let's add 2 + 100

= 102

So, 2 + (5 x 20) = 102

b. **27 - 19 - (20 ÷ 4) x 1**

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

27 - 19 - (20 ÷ 4) x 1 = 27 - 19 - 5 x 1

Finally, let's subtract

27 - 19 - 5 = 3

So, 27 - 19 - (20 ÷ 4) x 1 = 3

c. **(12 ÷ 2) + (19 - 10)**

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

(12 ÷ 2) + (19 - 10) = 6 + 9

Finally, let's Add

6 + 9 = 15

So, (12 ÷ 2) + (19 - 10) = 15

d. **(10 ÷ 2) + (7 + 9) - 17**

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

(10 ÷ 2) + (7 + 9) - 17

5 + 16 - 17 = 21 - 17

Finally, let's subtract

21 - 17 = 4

So, (10 ÷ 2) + (7 + 9) - 17 = 4

e. **(2 x 11 + 2) - (3 x 6 + 5)**

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

(2 x 11 + 2) - (3 x 6 + 5)

(24) - (23) = 24 - 23

Finally, let's subtract

24 - 23 = 1

So, (2 x 11 + 2) - (3 x 6 + 5) = 1

f. **10 x 5 ÷ 2 + (17 - 2 + 6)**

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

10 x 5 ÷ 2 + (17 - 2 + 6)

10 x 5 ÷ 2 + (21) = 10 x 5 ÷ 2 + 21

Finally, let's solve the expression normally

10 x 5 ÷ 2 + 21 = 46

So, 10 x 5 ÷ 2 + (17 - 2 + 6) = 46