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

Evaluate numerical expressions with parentheses in different places

a. Tick the expression that has a value of 19?

☐ 5 x (3 + 4) ☐ (5 x 3) + 4

b. Tick the expression that has a value of 85?

☐ 40 + (10 x 3 + 15) ☐ (40 + 10 x 3) ÷ 15

c. Tick the expression that has a value of 58?

☐ 60 - (24 ÷ 12) ☐ (60 - 24) ÷ 12

d. Tick the expression that has a value of 100.

☐ 72 - 12 - (20 x 2) ☐ 72 - (12 - 20 x 2)

e. Tick the expression that has a value of 68?

☐ 70 - (24 ÷ 12) ☐ (60 - 24) ÷ 12

f. Tick the expression that has a value of 120.

☐ 72 - 12 - (20 x 2) ☐ 92 - (12 - 20 x 2)

Solution

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

Evaluate numerical expressions with parentheses in different places

a. Tick the expression that has a value of 19?

☐ 5 x (3 + 4) ☑ (5 x 3) + 4

Let's find the value of each expression.
Let's start with 5x(3+4)
5x(3+4) = 5x(7)
5 x 7 = 35
So, the value of 5x(3+4) is 35
Now, let's solve for 5x(3+4)
(5x3)+4 = (15)+4
15 + 4 = 19
The value of (5x3)+4 is 19.

Therefore, the correct answer is option b.

b. Tick the expression that has a value of 85?

☑ 40 + (10 x 3 + 15) ☐ (40 + 10 x 3) ÷ 15

Let's find the value of each expression.
Let's start with 40+(10x3+15)
40+(10x3+15) = 40+(45)
40 + 45 = 85
The value of 40+(10x3+15) is 85.
Now, let's solve for (40+10x3)÷15
(40+10x3)÷15
70 ÷ 15 = 4.666
So, the value of (40+10x3)÷15 is 4.7

Therefore, the correct answer is option a.

c. Tick the expression that has a value of 58?

☑ 60 - (24 ÷ 12) ☐ (60 - 24) ÷ 12

Let's find the value of each expression.
Let's start with 60-(24÷12)
60-(24÷12) = 60-(2)
60 - 2 = 58
The value of 60-(24÷12) is 58.
Now, let's solve for (60-24)÷12
(60-24) ÷ 12
36 ÷ 12 = 3
So, the value of (60-24)÷12 is 3

Therefore, the correct answer is option a.

d. Tick the expression that has a value of 100.

☐ 72 - 12 - (20 x 2) ☑ 72 - (12 - 20 x 2)

Let's find the value of each expression.
Let's start with 72-12-(20x2)
72-12-(20x2) = 72- 12-(40)
72-12-40 = 20
The value of 72-12-(20x2) is 20
Now, let's solve for 72-(12-20x2)
72-(12-20x2) = 72-(-28)
72+28 = 100
So, the value of 72-(12-20x2) is 100

Therefore, the correct answer is option b.