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

Identify mistakes involving the order of operations.

a. Peter tried to evaluate the expression 24 - 12 ÷ 3 x 2. Check if Peter's work below is correct.

24 - 12 ÷ 3 x 2
24 - 12 ÷ 6 → Step 1
24 - 2 → Step 2
22 → Step 3

b. Mimi tried to evaluate the expression 12 + (6 - 3) ÷ 3. Check if mimi's work below is correct.

12 + (6 - 3) ÷ 3
12 + 3 ÷ 3 → Step 1
15 ÷ 3 → Step 2
5 → Step 3

c. Marie tried to evaluate the expression 70 - 10 x (8 - 4). Check if marie's work below is correct.

70 - 10 x (8 - 4)
60 x (8 - 4) → Step 1
60 x 4 → Step 2
240 → Step 3

mathskills4kids

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

Identify mistakes involving the order of operations.

a.   Peter tried to evaluate the expression 24 - 12 ÷ 3 x 2. Check if Peter's work below is correct.

24 - 12 ÷ 3 x 2
24 - 12 ÷ 6 → Step 1
24 - 2 → Step 2
22 → Step 3

Peter made a mistake in step 1. He multiplied before he divided.
The order of operation says multiply and divide from left to right.
So, peter should have divided before multiplying

24 - 12 ÷ 3 x 2
24 - 4 x 2 → Divide
24 - 8 → Multiply
16 → Subtract

b.   Mimi tried to evaluate the expression 12 + (6 - 3) ÷ 3. Check if mimi's work below is correct.

12 + (6 - 3) ÷ 3
12 + 3 ÷ 3 → Step 1
15 ÷ 3 → Step 2
5 → Step 3

Mimi made a mistake in step 2. Mimi added before she divided.
The order of operation says divide before adding.
So, Mimi should have solved it like this.

12 + (6 - 3) ÷ 3
12 + 3 ÷ 3 → Subtract
12 + 1 → Divide
13 → Adition

c.   Marie tried to evaluate the expression 70 - 10 x (8 - 4). Check if marie's work below is correct.

70 - 10 x (8 - 4)
60 x (8 - 4) → Step 1
60 x 4 → Step 2
240 → Step 3

Marie made mistake in step 1. She subtracted before solving the
parenthesis. The order of operation says solve parenthesis first, then
Multiply or divide from left to right.
So, Marie should have solved it like this

70 - 10 x (8 - 4)
70 - 10 x 4 → Solve parenthesis first
70 - 40 → Multiply
30 → Subtract