

## Order of operations

Records showing that operations need to be done are called **expressions.** They **DO NOT** contain comparison signs >, < or =.

Write expressions. **a)** There are 5 books in a box and 6 in another. How many books are in both boxes?

**b)** There are 7 liters of milk in two jars. The smaller jar contains 2 liters. How many liters are in the larger jar?



### Does the order of operations matter?

6 Try to evaluate expression "8 – 1 + 2" in two ways and compare the results:

### Method 1:

4

- 1. Subtract 1 from 8: 8 1 = \_\_\_\_\_
- 2. To the result add 2: \_\_\_\_ + 2 = \_\_\_\_

#### Method 2:

- 1. Add 1 and 2: 1 + 2 = \_\_\_\_\_
- 2. Subtract the result from 8: 8 \_\_\_ = \_\_\_\_
- Is the result the same? \_\_\_\_

In some cases, changing the order of operations affects the result. By agreement, operations of addition and subtraction are performed from left to right in the order they are written.



# Polygonal Chain

What happened if we connect several line segments so each two of them will have one common endpoint? Such a figure called a **polygonal chain**. Any polygonal chain consists of **segments** and **vertices**.





1) Last Sunday, Pop Eye and Foxy Tail went to the Chedaron museum of Cheese and Little Joe went to Mozzarelle to see the famous "Cheese hole" sculpture. Whose trip was the shortest? How much shorter?

2) If Jack the Mouse trip to the beautiful planes of Cheesedale will take place, will it be longer or shorter trip comparing to his brothers' trips? How long this trip will be?

3) Four brothers plan a trip to Parmesa to see their grandmother. How can they get to Parmesa? What is the shortest way?