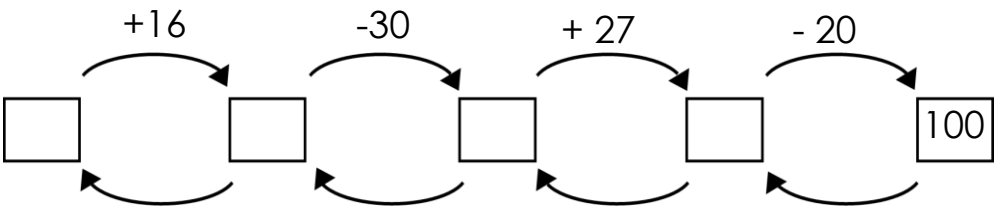
Lesson 11

Expressions

1 "I think of a number" game with Little Joe.
LJ thought of a number. He added 16, subtracted 30, added 27, subtracted 20, and got 100. What was LJ's number?



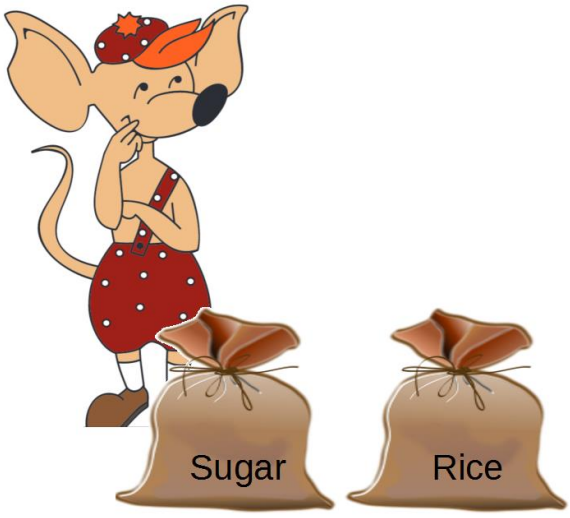
2 **In your notebook,** solve the equations and write you solutions similarly to the example. Copy your answers here. Make drawings if needed.

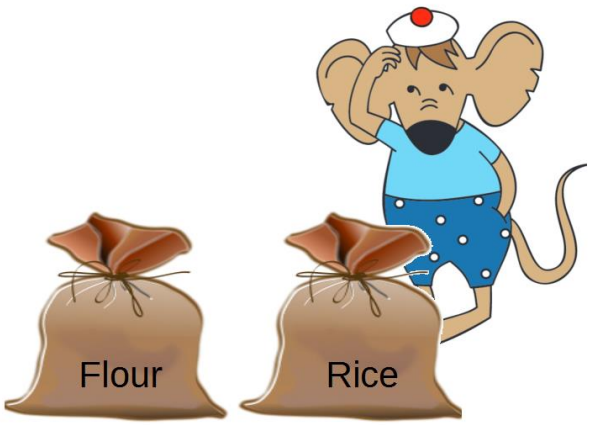
746 - **x** = 318 250 + **y** = 879 **z** – 456 = 67

x = y = z =

3 The two sacks contain **rice and sugar** but the labels are FALSE.

What does each sack contain?





4

Foxy Tail, Little Joe, and Jake the Mouse went fishing. Little Joe caught 5 fish. Jake the Mouse caught 3 fish more than Little Joe. Foxy Tail caught 1 fish less than Jake the Mouse.

Which questions may be answered by evaluating the following expressions?

a) 5 + 3 - How many fish … _____

b) 5 + 3 – 1 - _____

c) 5 + (5 + 3) - _____

d) 5 + (5 + 3 – 1) - _____

e) 5 + (5 + 3) + (5 + 3 – 1) - _____

5

Write the expressions.

There are **5** pencils in one box and **1** in another. How many pencils are in both boxes?

_____

There are **7** pencils in one box and ***m*** in another. How many pencils are in both boxes?

_____

There are ***k*** pencils in one box and ***d*** in another. How many pencils are in both boxes?

_____

There are **9** pencils in two boxes. Out of them **5** are in the first box. How many pencils are in the second?

_____

There are ***a*** pencils in two boxes. Out of them **5** are in the first box. How many pencils are in the second?

_____

There are ***a*** pencils in two boxes. Out of them ***b*** are in the first box. How many pencils are in the second?

_____

6 Find the order of operations and solve:

12 + 8 – 7 + 13 = _____

(12 + 8) – (7 + 13) = _____

12 + (8 – 7 + 13) = _____

7 Compare:

a …… a - 7

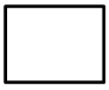
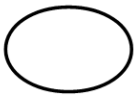
a – 7 ….. a – 7 + 1

a – 7 ….. a – (7 + 1)

n + 3 …… n + (3 – 1)

n – 3 ……n – (3 – 1)

x – 3 ……x – (3 – 1)

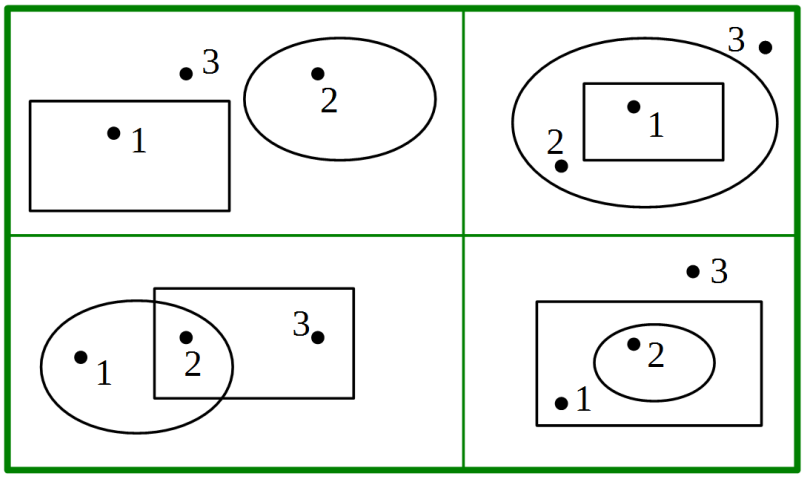
8 Pick the right diagram for the sets of  **swans** and  **white birds**.

Give examples for the elements 1, 2, and 3 in the proper diagram.

1. _____

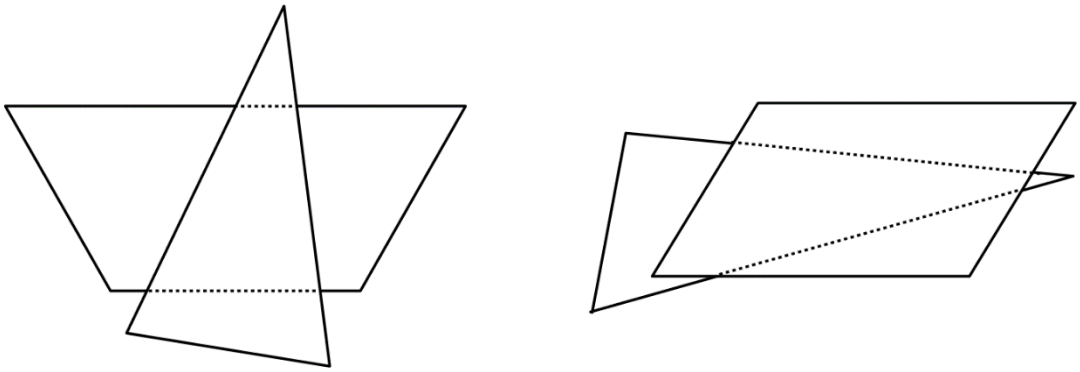
2. _____

3. _____



9 Imagine that a green sheet of paper lays on top of a white sheet. Use a solid red line to trace the borders of both sheets that you can see. Using a dashed red line to trace the borders of both sheets that you cannot see.

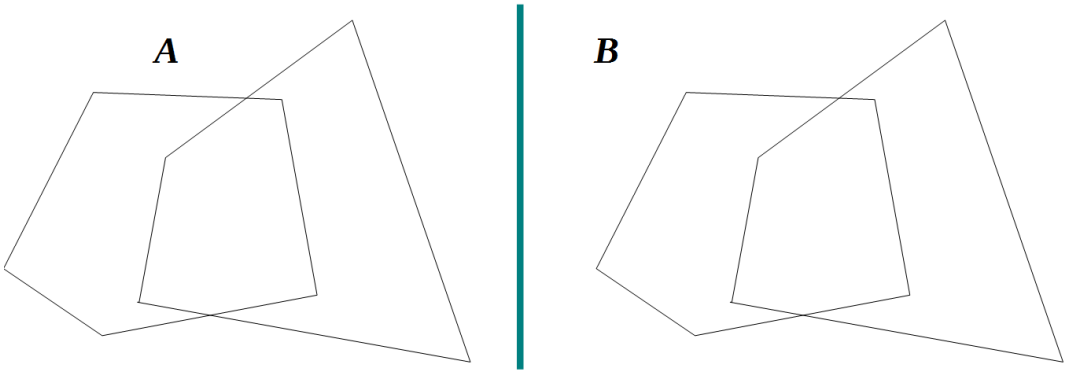
10 Color the shape that lays on top.



11 Color the pentagon if:

a) the pentagon is on top of the quadrilateral;

b) the pentagon is under the quadrilateral.



12 "Program" the Black Box to perform another operation and ask somebody to figure out what operation the Black Box is performing.