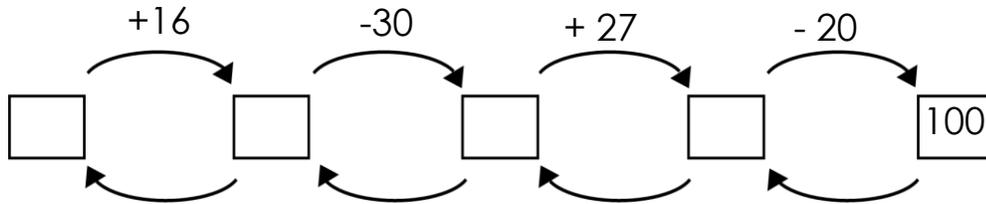


Expressions

- 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 your solutions similarly to the example. Copy your answers here. Make drawings if needed.

$$746 - x = 318$$

$$x =$$

$$250 + y = 879$$

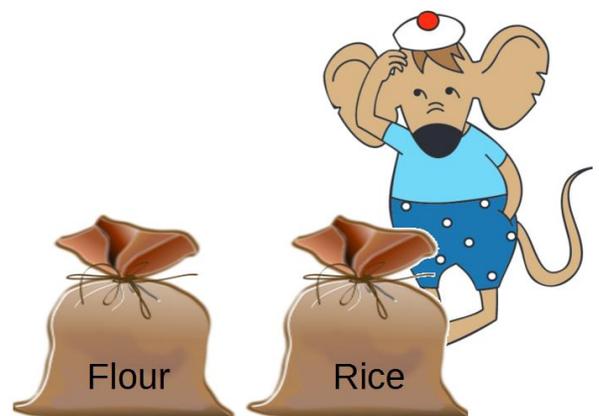
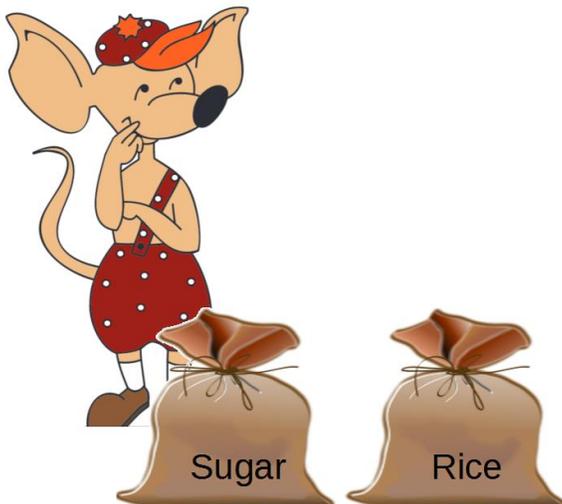
$$y =$$

$$z - 456 = 67$$

$$z =$$

- 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:

$a \dots a - 7$

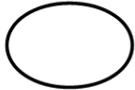
$n + 3 \dots n + (3 - 1)$

$a - 7 \dots a - 7 + 1$

$n - 3 \dots n - (3 - 1)$

$a - 7 \dots a - (7 + 1)$

$x - 3 \dots x - (3 - 1)$

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.

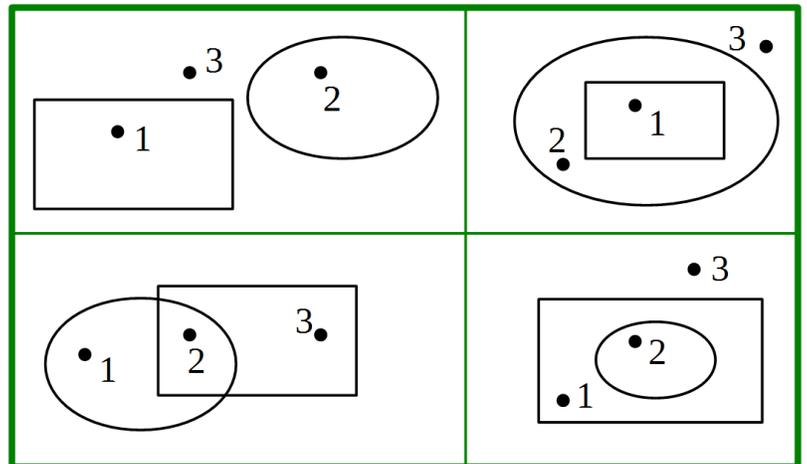
1. _____



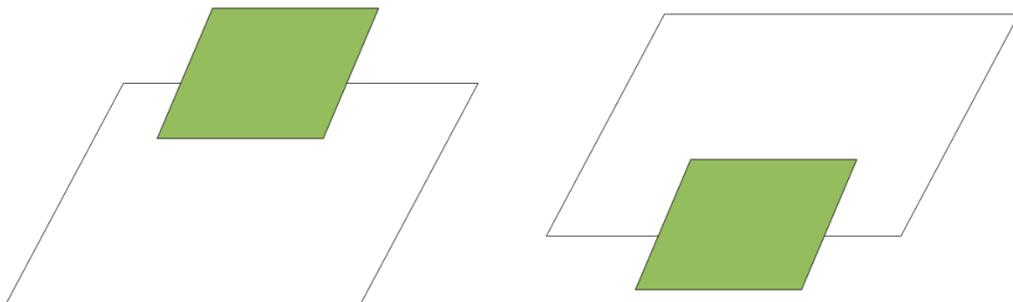
2. _____



3. _____

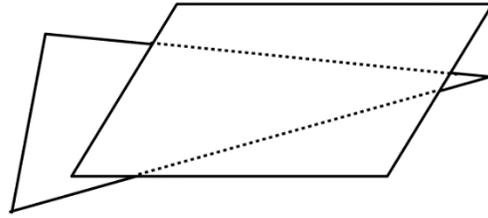
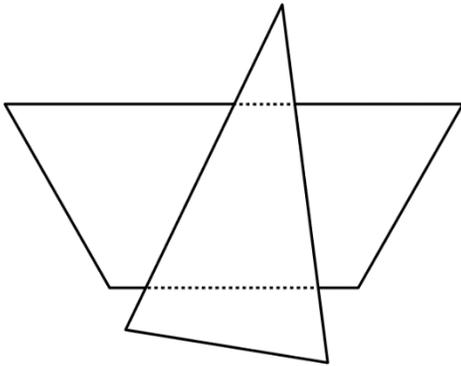


9 Imagine that a green sheet of paper lays on top of a white sheet. Use a solid red line to trace the borders of both sheets that you can see. Using a dashed red line to trace the borders of both sheets that you cannot see.



10

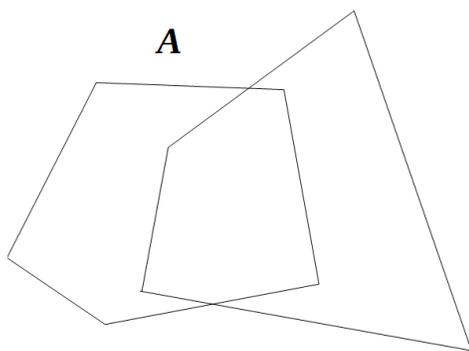
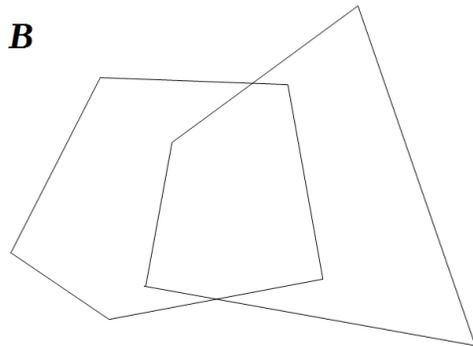
Color the shape that lays on top.



11

Color the pentagon if:

- a) the pentagon is on top of the quadrilateral;
- b) the pentagon is under the quadrilateral.

**B**

12

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

