



Compare:

1

$$a \underline{\quad} a + c$$

$$a + b \underline{\quad} b + a$$

$$38 - b \underline{\quad} 68 - b$$

$$b \underline{\quad} b - 5$$

$$k + 26 \underline{\quad} 62 + k$$

$$a - 0 \underline{\quad} a + 0$$

$$4 \underline{\quad} d - d$$

$$54 + n \underline{\quad} 54 - n$$

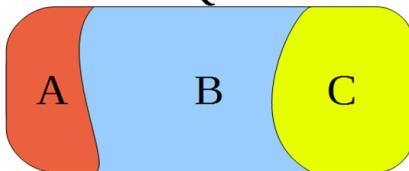
$$c - 19 \underline{\quad} c - 90$$

2

Analyze the whole and the parts:



Q



$$Q = A + B + C$$

$$B = \underline{Q - A - \dots}$$

$$A + B = \underline{Q - \dots}$$

$$A + C = \underline{\quad}$$

Write down the expressions:

3

a) There are **3** books on a shelf. **One** book was added. How many books are on the shelf now?

\_\_\_\_\_

b) There are **m** books on a shelf. **One** book was added. How many books are on the shelf now?

\_\_\_\_\_

c) There are **3** books on a shelf. **n** books were added. How many books are on the shelf now?

\_\_\_\_\_

d) There are **3** books on one shelf and **6** books on another shelf. How many more books are on the second shelf than on the first one? \_\_\_\_\_

\_\_\_\_\_

e) There are **c** books on the first shelf and **b** on the second. How many more books are on the second shelf than on the first one? \_\_\_\_\_

\_\_\_\_\_

f) There are **3** books on one shelf and **6** books on another. How many books will remain on both shelves after **4** books are taken away? \_\_\_\_\_

\_\_\_\_\_

g) There are **a** books on one shelf and **b** books on another. How many books will remain on both shelves after **c** books are taken away? \_\_\_\_\_

4 Mark the order of operations and calculate (do NOT open parentheses):



$$12 + 8 - 7 + 13 = \underline{\quad}$$

$$(12 + 8) - (7 + 13) = \underline{\quad}$$

$$12 + (8 - 7 + 13) = \underline{\quad}$$

**Removing parentheses.**

$$\begin{aligned}a + (b + c) &= a + b + c \\a + (b - c) &= a + b - c \\a - (b - c) &= a - b + c\end{aligned}$$

$$\begin{aligned}a + (b + c) &= a + b + c \\a + (b - c - d) &= a + b - c - d \\a - (b - c - d) &= a - b + c + d\end{aligned}$$

**5**Remove the parentheses and calculate: 

$5 + (6 + 1) =$

$25 + (95 + 6 + 5) =$

$5 + (6 - 1) =$

$63 + (52 - 3 - 8) =$

$5 - (6 - 1) =$

$89 - (23 - 17 - 11) =$

**6**

Remove parentheses and combine the similar terms:

$a + (b - c - a) + (c - b) =$  \_\_\_\_\_

$(a + b) - (c + d + b) =$  \_\_\_\_\_

$a - (b - c - d) - (c + d) =$  \_\_\_\_\_

$(b - d) - (d - b) + (a - b) =$  \_\_\_\_\_

**7**Write the numbers in columns and calculate their sums. 

$21 + 48 + 456$

$276 + 59 + 84$

$32 + 370 + 91$

$35 + 46 + 16$

+			

+			

+			

+			

**8**

Calculate:

$$\begin{array}{r} 8 & 1 & 7 \\ - & 6 & 8 \\ \hline \end{array}$$

$$\begin{array}{r} 5 & 0 & 5 \\ - & 2 & 6 \\ \hline \end{array}$$

$$\begin{array}{r} 3 & 1 & 4 \\ - & 8 & 9 \\ \hline \end{array}$$

**9**

What number am I?

a) When I am taken from 100, the result is 52. \_\_\_\_\_

b) When I have 108 added to me, the result is 409. \_\_\_\_\_

c) When I am decreased by 45, the result is 17. \_\_\_\_\_



**10**

Solve for x. Check your answers.

$$31 - x = 22$$

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$$x + 107 = 235$$

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$$x - 18 = 29 + 125$$

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**11**Find the weights of animals. 

The cat weighs ..... kg

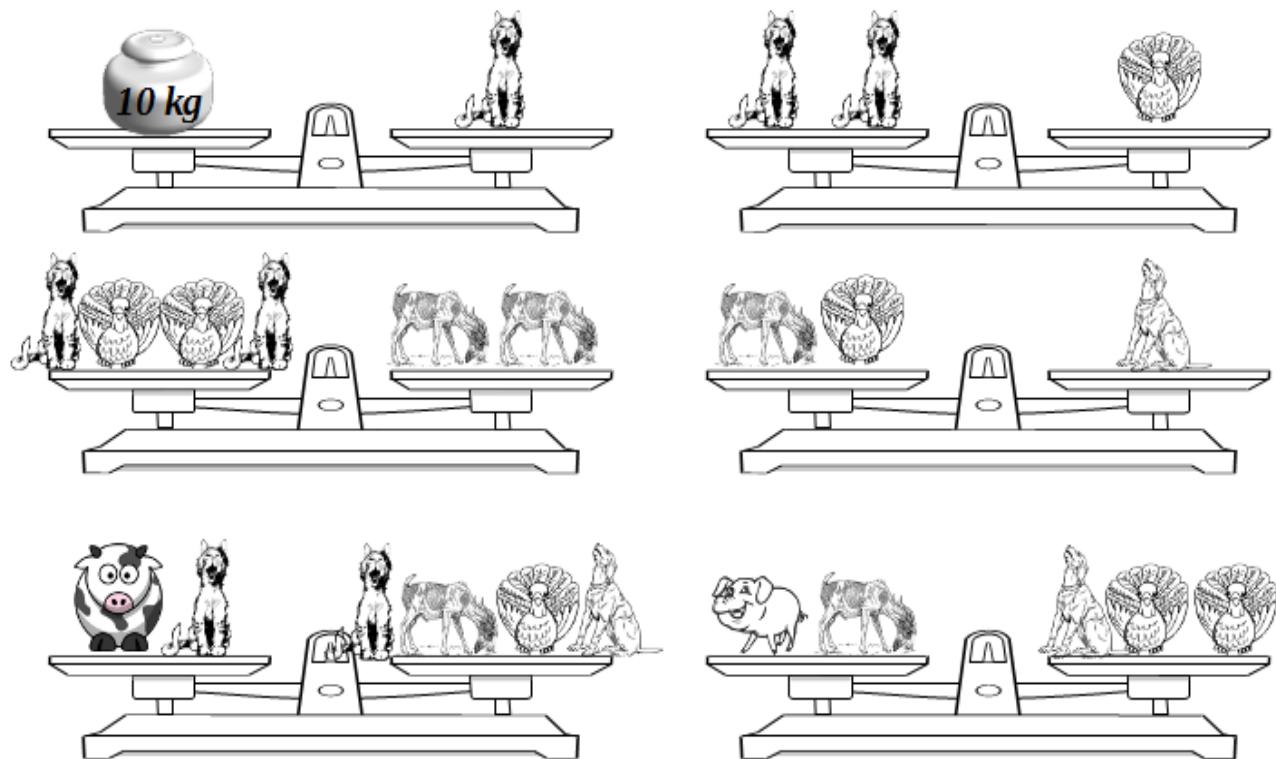
The turkey weighs ..... kg

The dog weighs ..... kg

The piglet weighs ..... kg

The goat weighs ..... kg

The cow weighs ..... kg

**12** Insert operation signs +, - to get correct equalities:

a)  $8 \underline{\quad} 6 \underline{\quad} 1 \underline{\quad} 7 \underline{\quad} 9 \underline{\quad} 3 = 20$

b)  $7 \underline{\quad} 9 \underline{\quad} 8 \underline{\quad} 4 \underline{\quad} 3 \underline{\quad} 5 = 20$

**13**

Calculate and express the answers in cm:

a)  $8\text{dm } 1\text{cm} + 9\text{ cm} =$

b)  $9\text{dm} - 5\text{ cm} =$

c)  $8\text{dm} + 3\text{m } 2\text{dm} =$

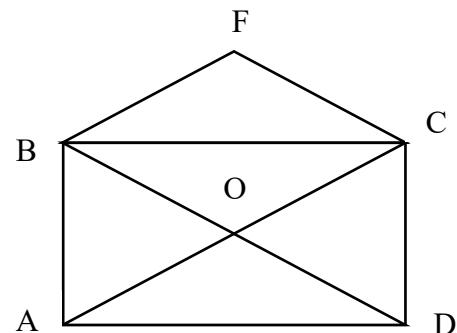
d)  $5\text{m} - 9\text{dm} =$

**14**

How many triangles and quadrilaterals can you find on the sketch below. Write down all names.

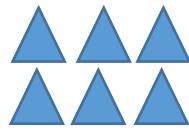
Triangles: ABC, \_\_\_\_\_

Quadrilaterals: ABCD, \_\_\_\_\_

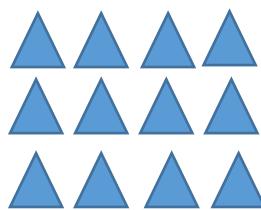
**15**

The perimeter of the square is 32cm. Imagine the rectangle with a length equal to the square's side, and the width is 3cm shorter. Find the perimeter of the rectangle.

P = \_\_\_\_\_

**16**Look at the pattern and draw steps 4, 5, and 6. Make a drawing for each step. 

Step 1



Step 2

Step 3

*HAVE FUN! HAPPY HOLIDAYS TO YOU AND YOUR FAMILY!*