Homework for Lesson № 1

In your notebook make auxiliary drawings and solve the equations:

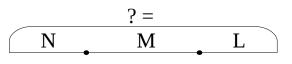
$$x - 124 = 76$$

$$y + 28 = 132$$

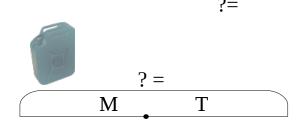
$$500 - z = 134$$

Use the drawings to solve the word problems

A. Nick has 12 pencils, Mike has 7 pencils, Lisa has 8 pencils. How many pencils do the three kids have altogether?



B. There are 12 fish in an aquarium. The second aguarium has 5 more fish than the first. How many fish are in the third aquarium if there are 50 fish in all three?



II

III

- **C.** A taxi driver used 12 gallons of gasoline on Monday. This is 4 gallons less than the amount of gasoline he used on Tuesday. How many gallons of gasoline did he use in those two days?
- Determine the order of operations in the expressions.

$$m+(n-k)-(t+k)$$

$$m+(n-k-t)+k$$

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$$(m+n)-k-(t+d)$$

$$m+n-(k-t+k)$$

Compare:

$$254 - a 204 - a$$

$$c + d \prod d + c$$

$$b - 287 \square b - 56$$

$$440 - k$$
 $\int 540 - k$

Compare:

$$28 - 5 \square 28 - (5 + 1)$$
 $p - 8 \square p - (8 + 3)$

$$p - 8 \square p - (8 + 3)$$

$$32 - x \square 32 - (x + 2)$$

$$28-5 \square 28-(5-2)$$
 $p-8 \square p-(8-1)$

$$p - 8 \square p - (8 - 1)$$

$$26 - y \square 26 - (y - 3)$$

$$28 - 5 \square 28 - (5 + a)$$
 $q - 8 \square q - (8 + m)$

$$q-8 \square q-(8+m)$$

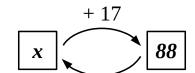
$$q-a \square q - (a+m)$$

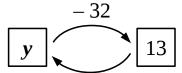
$$28-5 \square 28-(5-b)$$
 $q-8 \square q-(8-n)$

$$q-8 \square q-(8-n)$$

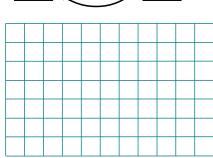
$$q-b \square q-(b-n)$$

Write the appropriate equations and solve them.











Determine the order of operations and evaluate the expressions:

$$215 - (38 + 169) =$$

$$500 - (239 + 85) + 457 =$$

$$(357 + 194) - 263 =$$

$$(304 - 26) - (72 + 168) =$$

Express in decimeters and centimeters:

$$80 \text{ cm} = \underline{\qquad} \text{dm} \underline{\qquad} \text{cm}$$

9 Express in cm:

$$2 \text{ dm } 7 \text{ cm} = \underline{\hspace{1cm}} \text{ cm}$$

$$8 \text{ dm } 5 \text{ cm} = \underline{\hspace{1cm}} \text{ cm}$$

$$80 \text{ dm } 5 \text{ cm} = \underline{\hspace{1cm}} \text{ cm}$$

$$24 \text{ dm} = \underline{\hspace{1cm}} \text{cm}$$

$$66 \text{ dm} = \underline{\hspace{1cm}} \text{cm}$$

$$30 \text{ dm} = \underline{\hspace{1cm}} \text{cm}$$

$$1 \text{ m } 3 \text{ dm } 4 \text{ cm} = \underline{\hspace{1cm}} \text{ cm}$$

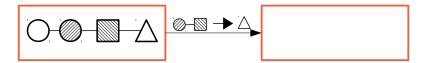
$$4 \text{ m } 6 \text{ dm } 1 \text{ cm} = \text{cm}$$

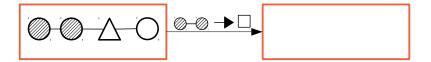
$$2 \text{ m } 7 \text{ dm} = \text{cm}$$

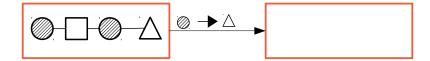
$$4 \text{ m } 34 \text{ cm} = \underline{\hspace{1cm}} \text{ cm}$$

$$6 \text{ m } 5 \text{ cm} = \underline{\hspace{1cm}} \text{ cm}$$

10 Replace:







11 Transform the equations by doing replacements according to the instructions:

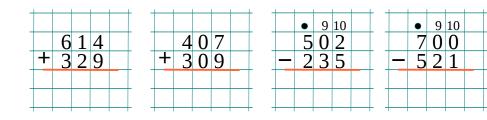
$$12 - x:2 = 4 \qquad \qquad x:2 \rightarrow z$$

$$t=5$$
 $t \rightarrow u \cdot 3$

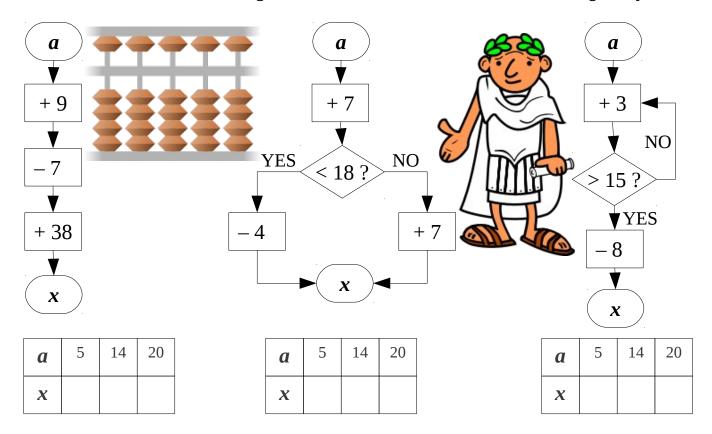
$$7 + m + n = 16$$
 $q = m + n$

$$12: x + 7 = 10$$
 $12: x = t$

12 Calculate:



Perform the sequences of actions according to the algorithms on the drawing below. Which of these algorithms could be called *linear*, *or branching*, *or cyclic*?



14 Determine the sequence of operations in the expressions:

$$a + (b - c) + (d + m) - k$$

$$a+c-b+d-p+q$$

$$(m-k) + (x-y) - (a+c)$$

$$m-(a+b-c)+(m-n)$$

Insert the missing digits and inspect you answers:

Check:



