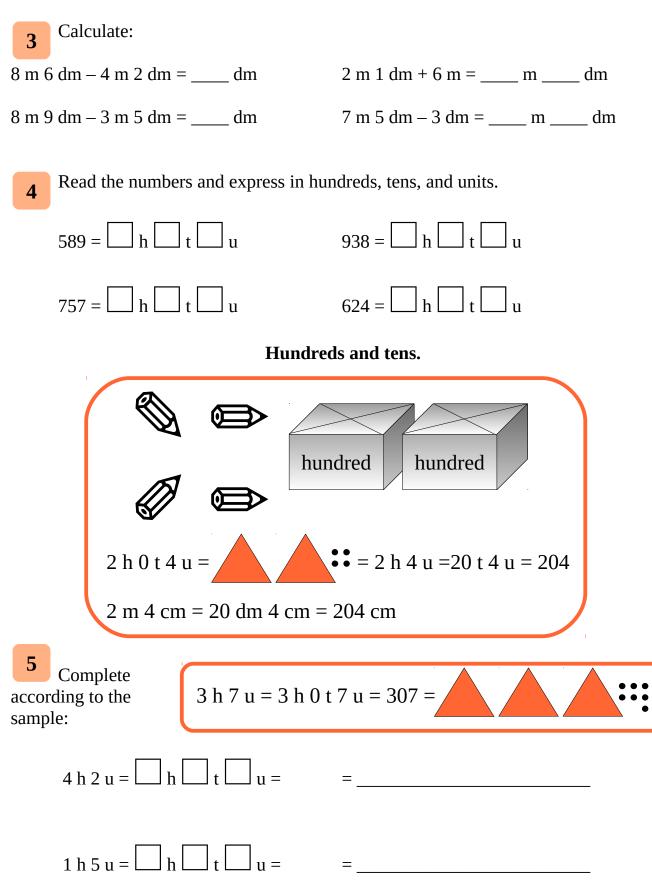


Which distances correspond to these numbers?

Lesson № 5



Which distances correspond to these numbers?

Write the numbers using digits and express the distances in centimeters.

9 h 4 u =	6 h 2 u =
9 m 4 cm =	6 m 2 cm =

7 Which number in counting ...

follows	482;	500;	529;	699;	810
precedes	217;	360;	400;	590;	900

8 LJ, JM, and FT labeled point *X* on a number line. Then each of them tried to write 3 consecutive numbers on a separate sheet of paper.

LJ wrote: X + 1, X + 2, X + 4.		
JM wrote: $X - 1$, X , and $X + 1$.		—
FT wrote: X − 2, X − 1, X .	X	

Which of them was right? Label all 4 points on the line.

9 Which number					
	follows	a + 2	c – 1	X	y + 4
	precedes	a + 2	c – 1	X	y + 4
1	Compare:				
а	\Box $a + c$	a + b	<i>b</i> + <i>a</i>	38 – b 🗌 68	B-b
b	□ b − 5	<i>k</i> + 26	62 + k	a – 0 🗌 a +	- 0
4	$\Box d-d$	54 + n	54 – n	c – 19 🗌 c –	- 90

6

Parenthesis.

In expression 8 - 1 + 4 operations are performed in the natural order. The subtraction is performed before addition. In order to change the natural order **parentheses** are used:

Determine the order of operations in the expressions:

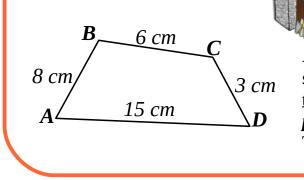
a).a - (b + c)b).(a + b) - cc).a - (b - c) - dd).26 + (32 - 16)e).93 + (12 + 16) - 35f).a + (b - c + d)

Perimeter.

A path from a blacksmith shop to a tower is a segmented chain. Its length is:

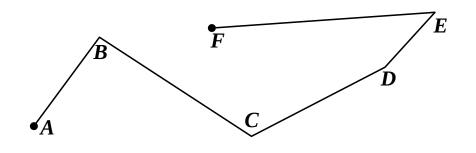
25 m + 14 m + 36 m + 25 m = 100 m

11



A closed segmented chain forms a polygon. Each segment becomes a side of the polygon. The total of the sides of a polygon is called its *perimeter*. The perimeter of the quadrilateral *ABCD* equals 8 *cm* + 6 *cm* + 3 *cm* + 15 *cm* = 32 *cm*

12 Measure the segments of the segmented line and find its length:

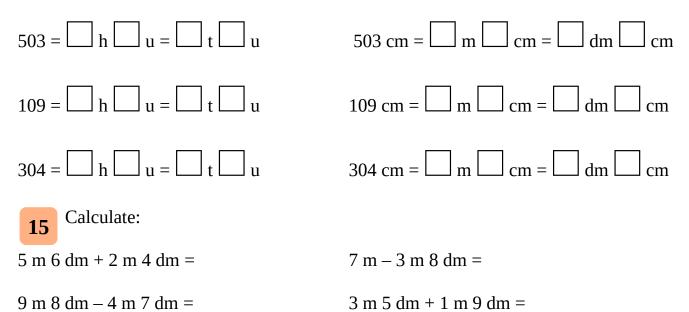


AB	
BC	
CD	
DE	2 cm
EF	

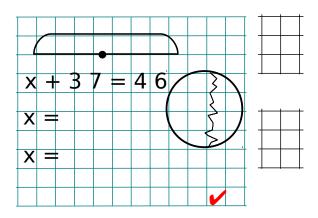
Regroup:

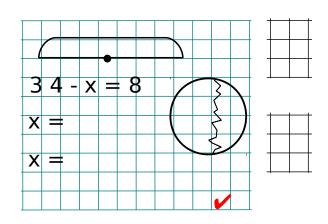
2 \$ 5 cents = dimes cents	2m 5 cm = dm cm
317 cents = dimes cents	317 cm = dm cm
450 cents = \$ dimes	450 m = m cm

Express the numbers in hundreds and units. Express the distances in meters and centimeters.



Solve equations:





JM and PY decided to make a triangular 17 Avegetable bed like the one on the drawing. The brothers decided to surround it by > B a fence. Use a ruler to find out how long the fence should be? С Borrowing units from hundreds. 3 0 0 3 5 100 = 90 + 10 = 9 t + 10 u2 6 5 137 255 255 526 619 877 Who ate the carrot? 18 9 0 0 0 4 8 7 5 2 3 R Т В **Algorithms and Programs.** Insert parentheses according to the order of operations: 19 (1) (2) (1) (2) a-b+c a+b-c(1) (2) 1) (2) a + b + ca-b-c2 1 2 1 2 1 (2) (1) a + b - ca-b+ca + b + ca-b-c20 Determine the order of operations in the expressions: 12 - 4 + 712 - (4 + 7)(12 - 4) + 7

19 - (3 + 7) - 4

19 - 3 + 7 - 4

19 - 3 + (7 - 4)

Sometimes to achieve a purpose *several operations* must be performed. The sequence of these operations is called an *algorithm*.

Record the algorithm for tea brewing by arranging the actions in the correct order:

- 1. Fill the tea pot with the boiling water
- 2. Boil some water

21

- 3. Cover the tea pot with a special warmer
- 4. Rinse the tea pot with boiling water
- 5. Put the tea leaves into the tea pot
- 6. Wait for 5 minutes until the tea brew is ready
- 7. Prepare some tea leaves



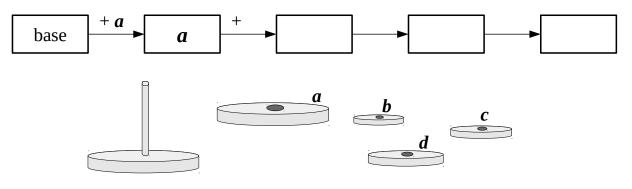


When we dress up we put on shoes **after** putting on the socks. When we undress we take off the shoes **before** we take off the socks.

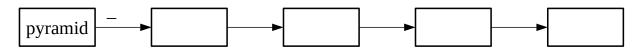
In reverse algorithms the reverse operations are performed in the reverse order!

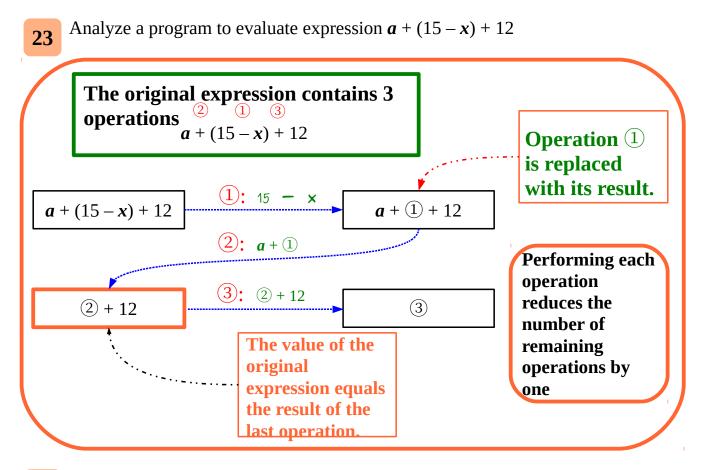
22

Write a program of putting up the pyramid from its parts



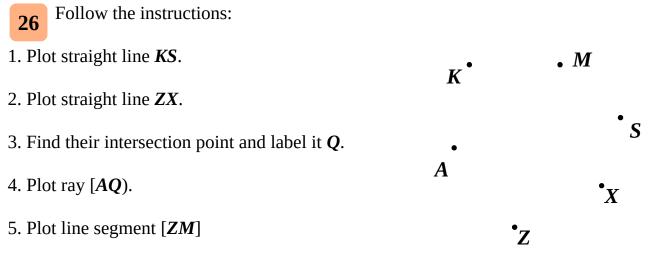
Write the program for dissembling this pyramid into pieces.





24 For each expression mark the order of operations and write a program to evaluate it. For each step write the remaining expression by replacing the operation with its result.

9 + y - 7 + x		(9 + y) - (7 + x)	
1	1		-
2	2		-
3	3		-
25 Evaluate the expressions step-by-ste	sb:		
12 + 8 - 7 + 13 =			
(12 + 8) – (7 + 13) =			
12 + (8 – 7 + 13) =			



6. Find intersection point of [*AQ*) and [*ZM*], label it *W*.

