school					Multiplication. Algorithms																	
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								Ws	rn	ı ∏r												
										- C F												
a) Put a	ll weig	ghts in	n ord	er fr	om tł	ne li	ght	est to	hea	viest												
2kg 100)g,	1k	g 900)g,	550g, 55kg, 5,500g, 5								5kg	g 50	g							
			1							1.												
b) Put a	ll leng	ths 1r	1 orde dm	er fro	om th	ie la	rge	st to si	mal dm	lest:		50	5cm									
Jili Juli	1,	550	um,		55	JUI	1,	5	um	Juli	,	50	Jem									
Enter in	a mis	sed n	umb	er to	make	e an	eq	uation	COI	rect:												
23 + 24	+	= 80)			_	23	+	+ 3	32 =	80					23	+		+ 15	5 = 8	0	
															_							
Calcula	te sma	rtly (the n	nost	conve	enie	nt v	way):														
158 + 2	158 + 217 + 42 =				228 +118 + 82 =								294 + 106 - 94 =									
											_											
		<u> </u>					• •															
							Hc	omew	ork	t Re	vie	W										
What ty followii	pes of ng time	angl es (ri	es aro ght, c	e for obtus	med se, ac	by tl ute,	he l stra	hour h aight)	and ?	and	the	min	ute l	nand	lon	the	clo	ck fa	ace a	t the	2	
a) 3 o'c	a) 3 o'clock - angle b) 4 o'clock - angle																					
	pact Q	- angl	le					d) 11	o'c	ock	a - an	gle									
c) half p	Jast 9 -	-																				
c) half I	Jast 9 -	-																				





	Lesson 15	Multip	lication. Algorithms	
11	a) In each equati	on, underline the factors of	of the products and circle the p	products.
	$1 \times 5 = 5$	$2 \times 5 = 10$	$1 \times 5 = 5$	$4 \times 5 = 20$
	b) Express each	multiplication is a repetiti	ve sum.	
	<i>Example:</i> 2×5	= 5 + 5 = 2 + 2 + 2 + 2	+ 2	
	1 × 5 =			
	3 × 5 =			
	2 × 6 =			
		R	EVIEW I	
condi	tional test, i.e., per	formed more than one tin	ne. Those steps are called a loc	pp.
12	Example of the I	Linear algorithm.		START
			Thin	k of the 1 st number
			Thinl	k of the 2 nd number
			Add the	1st number to the 2 nd
			Add the	
			Find th	e result of addition
				Ļ
			$\left(\right)$	END



1. Adding number to a sum	(33 + 74) + 26 = 33 + (74 + 26) = 33 + 100 = 133
2. Subtracting number from a sum	(137 + 92) - 37 = (137 - 37) + 92 = 100 + 92 = 192
3. Subtracting a sum from a number	128 - (28 + 14) = (128 - 28) - 14 = 100 - 14 = 86

14 Calculate smartly (the most convenient way): 75 - (34 + 25) =

91 - (71 + 15) = (29 + 36) - 19 = (13 + 57) - 47 = 2 + (36 + 98) =

Lesson 15 **Multiplication.** Algorithms There were *a* liters of water in the 1st bucket and *b* liters of water in the 2nd bucket. A gardener 15 used *c* liters of water to water his garden. How many liters of water remained in both buckets total? There are three different methods to solve this problem. Let's consider each of them. Method I : (a + b) - c**c**_ b а Method II : (a - c) + bС b а Method III : a + (b - c)С (a + b) - c = (a - c) + b = (b - c) + a = a + b - c

Did you know ...

Algorithms have a long history. The word can be traced back to the 9th century.

At this time, the Persian scientist, astronomer, and mathematician Abdullah Muhammad bin Musa al-Khwarizmi, often cited as "The father of Algebra," was indirectly responsible for creating the term "Algorithm." In the 12th century, one of his books was translated into Latin, where his name was rendered in Latin as "Algorithm." But this was not the beginning of algorithms.

In 1600 BC - Babylonians develop the earliest known algorithms. The concept of the algorithm was formalized in 1936 through Alan Turing's Turing machines, which in turn formed the foundation of computer science.