

Quick Raise Calculations

Is there an easier way to figure out my salary increase and retroactive pay?

Yes there is! With the help of algebra we have come up with two easy steps to figure out both:

Step 1

Gross Salary Increase

Take your old annual salary and multiply it by 1.0816. Then you add the longevity multiplied by .0816. Using the example from the other side:

$$\begin{aligned}
 & \$50,592 \text{ (old annual salary)} \times 1.0816 = \$54,720.31 \\
 & \$54,720.31 + (2026 \text{ longevity} \times .0816) = \$54,886
 \end{aligned}$$

Per pay period this is $\$54,886 \div 365 \times 14 = \$2,105.22$.

Step 2

Retroactive pay

Add your old annual salary to your "compoundable" annual longevity and then multiply by .0884916. Using our previous example:

$$\begin{aligned}
 & \$50,592 + 2026 = \$52,618 \\
 & \$52,618 \times .0884916 = \$4656.25
 \end{aligned}$$

The City of New York				EMPLOYEE		Payroll Management System				
ITEM #	PAY PERIOD		PAY DATE		PAY STATEMENT		PAYROLL #	WORK UNIT	CHECK NUMBER	DISTRIBUTION #
	11/04/01	11/17/01	11/23/01				067	0202		00UNION
PENSION #	ELECTRONIC FUNDS TRANSFER INFORMATION			SSN	FEDERAL TAX ID #	STATE TAX ID #	REFERENCE #	EMPLOYEE NAME		
				1	A	01	A	01	0	CROGHAN ROBERT J
TAX INFO										
	TOTAL EARNINGS	FEDERAL TAX	SOCIAL SECURITY	MEDICARE	STATE TAX	CITY TAX	CITY WAIVER	TOTAL DEDUCTIONS THIS PERIOD		
THIS PERIOD	6877.46	1696.55	425.08	99.42	458.11	243.22		2969.35		
YEAR TO DATE	54177.19	7980.64	3325.24	777.68	2281.41	1265.86		NET PAY		
DESCRIPTION		UNITS/HOUR	AMT. EARNED PRIOR PER	UNITS/HOUR	AMT. EARNED THIS PER	LEAVE BALANCE AS OF:		11/10/01		
REGULAR PAY SVC/LONG/ED			4656.25	70:00	2105.22			3908.11		
					115.99	SICK LEAVE		1379:00	ANNUAL LEAVE	
						FLOATING HOL		7:00	1370:15	
EARNINGS DATA						MESSAGES				
DESCRIPTION		AMOUNT THIS PERIOD	GOAL AMOUNT OR TOTAL INSTALLMENT NO.	BALANCE DUE OR INSTALLMENT LEFT	DESCRIPTION		AMOUNT THIS PERIOD	GOAL AMOUNT OR TOTAL INSTALLMENT NO.	BALANCE DUE OR INSTALLMENT LEFT	
G-CBP EMPE OSA -U		21.42			G-CBP/BC EE OSA MUN LBR		10.00			
OTHER ITEMIZED DEDUCTIONS						OTHER ITEMIZED DEDUCTIONS				

This ends up being the exact amount listed on the pay stub in our example (#4)

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