



Greek Decoder

TO DECODE THE MESSAGE AT THE BOTTOM OF THE PAGE, FOLLOW THESE DIRECTIONS:

First, work any problem below and find your answer in the answer columns.

Then look for the GREEK LETTER of the answer in the coded message. Each time you see this GREEK LETTER, write the letter of that problem above it.

KEEP WORKING UNTIL YOU HAVE DECODED THE MESSAGE.



$\boxed{W} \frac{1}{2} + \frac{1}{4} =$	$\boxed{F} \frac{1}{2} + \frac{4}{5} =$	$\omicron 1\frac{1}{24}$	$\mu \frac{7}{12}$
$\boxed{D} \frac{5}{8} - \frac{1}{4} =$	$\boxed{S} \frac{7}{9} - \frac{1}{6} =$	$\eta 1\frac{4}{15}$	$\xi \frac{3}{8}$
$\boxed{Y} \frac{5}{6} + \frac{1}{3} =$	$\boxed{P} \frac{3}{10} + \frac{3}{4} =$	$\zeta 1\frac{3}{10}$	$\pi \frac{23}{30}$
$\boxed{I} \frac{3}{4} - \frac{1}{3} =$	$\boxed{M} \frac{7}{8} - \frac{1}{12} =$	$\delta \frac{3}{4}$	$\epsilon \frac{1}{8}$
$\boxed{U} \frac{2}{3} + \frac{3}{5} =$	$\boxed{L} \frac{7}{10} + \frac{1}{15} =$	$\gamma \frac{19}{24}$	$\sigma 1\frac{1}{20}$
$\boxed{C} \frac{4}{5} - \frac{1}{4} =$	$\boxed{H} \frac{5}{6} - \frac{1}{10} =$	$\beta \frac{17}{24}$	$\tau \frac{5}{12}$
$\boxed{O} \frac{1}{3} + \frac{3}{8} =$	$\boxed{T} \frac{1}{6} + \frac{7}{8} =$	$\alpha \frac{11}{15}$	$\rho \frac{7}{10}$
$\boxed{V} \frac{5}{6} - \frac{1}{4} =$	$\boxed{E} \frac{4}{5} - \frac{1}{10} =$	$\iota \frac{7}{9}$	$\omega \frac{11}{20}$
$\boxed{A} \frac{1}{3} + \frac{4}{9} =$	$\boxed{G} \frac{1}{5} + \frac{5}{6} =$	$\kappa 1\frac{1}{6}$	$\psi \frac{1}{4}$
$\boxed{N} \frac{1}{2} - \frac{3}{8} =$	$\boxed{R} \frac{5}{12} - \frac{1}{6} =$	$\lambda 1\frac{1}{30}$	$\chi \frac{11}{18}$

SECRET MESSAGE

ο α ρ ζ τ ψ χ ο β π κ γ σ τ ω λ ι γ ρ χ

δ ρ ψ ρ α ρ π ξ τ ε λ ψ ρ ρ ω ρ β μ ρ ψ

ο δ β ο α β η χ ι ε ξ κ ρ ι ψ χ ι λ β.

CHAIN CODE

THESE ARE CALLED CHAIN PROBLEMS. DO THE STEPS IN ORDER FROM LEFT TO RIGHT FOR EACH PROBLEM.
Work any problem and find your answer in the coded message about SHAMPOO. Each time the answer appears in the code, write the letter at the end of that problem above it.
 BE SURE TO WRITE EACH ANSWER IN LOWEST TERMS. KEEP WORKING UNTIL YOU HAVE DECODED THE MESSAGE.

TAKE $\frac{1}{12}$	ADD $\frac{1}{3}$	SUBTRACT $\frac{1}{4}$	=	= E	TAKE $\frac{5}{12}$	SUBTRACT $\frac{1}{6}$	ADD $\frac{1}{2}$	=	= R
TAKE $\frac{5}{6}$	ADD $\frac{1}{3}$	SUBTRACT $\frac{1}{2}$	=	= A	TAKE $\frac{3}{4}$	SUBTRACT $\frac{1}{10}$	ADD $\frac{4}{5}$	=	= U
TAKE $\frac{1}{3}$	ADD $\frac{4}{5}$	SUBTRACT $\frac{14}{15}$	=	= F	TAKE $\frac{7}{12}$	SUBTRACT $\frac{1}{8}$	ADD $\frac{3}{4}$	=	= I
TAKE $\frac{3}{8}$	ADD $\frac{2}{3}$	SUBTRACT $\frac{5}{6}$	=	= S	TAKE $\frac{15}{16}$	SUBTRACT $\frac{3}{4}$	ADD $\frac{1}{8}$	=	= N
TAKE $\frac{5}{9}$	ADD $\frac{1}{6}$	SUBTRACT $\frac{1}{3}$	=	= B	TAKE $\frac{11}{12}$	SUBTRACT $\frac{2}{3}$	ADD $\frac{1}{9}$	=	= T
TAKE $\frac{3}{4}$	ADD $\frac{2}{9}$	SUBTRACT $\frac{1}{6}$	=	= H	TAKE $\frac{7}{15}$	SUBTRACT $\frac{1}{6}$	ADD $\frac{3}{10}$	=	= O
TAKE $\frac{7}{10}$	ADD $\frac{3}{5}$	SUBTRACT $\frac{5}{6}$	=	= P	TAKE $\frac{5}{6}$	SUBTRACT $\frac{5}{8}$	ADD $\frac{1}{16}$	=	= L

SHAMPOO IS

$\frac{13}{36}$ $\frac{29}{36}$ $\frac{1}{6}$ $\frac{7}{18}$ $\frac{1}{6}$ $\frac{5}{24}$ $\frac{13}{36}$ $\frac{5}{24}$ $\frac{3}{5}$ $\frac{13}{48}$ $\frac{29}{20}$ $\frac{13}{36}$ $\frac{29}{24}$ $\frac{3}{5}$ $\frac{5}{16}$

$\frac{1}{5}$ $\frac{3}{5}$ $\frac{3}{4}$ $\frac{29}{36}$ $\frac{2}{3}$ $\frac{29}{24}$ $\frac{3}{4}$ $\frac{7}{15}$ $\frac{3}{5}$ $\frac{13}{48}$ $\frac{29}{20}$ $\frac{13}{36}$ $\frac{29}{24}$ $\frac{3}{5}$ $\frac{5}{16}$