SAMBA Bank quotes a rate of 6 percent with an effective annual rate of 6.17 percent. Does the bank use annual, quarterly, or monthly compounding?

أعلن مصرف سامبا معدل فائدة قدره 6 بالمئة بمعدل سنوي فعلي قدره 6.17 بالمئة. هل استخدم المصرف تراكما سنويا او فصليا (ربع سنوي) او شهريا؟

Parameter	Value	Notes
Quoted I/Y (R)	6	
Effective EAR	6.17	
LITT	0.17	
Period	?	Annually? Quarterly? Or Monthly?



Annually: N = 1

EAR = 
$$(1 + R/N)^N$$
 -1 EAR =  $(1+0.06/1)^1$  -1 =  $1.06 - 1 = 0.06 = 6.00 \neq 6.17$ , OR

2ND 2 6 ENTER 
$$\downarrow$$
 1 ENTER  $\uparrow$  CPT = 6.00 for Annually  $\neq$  6.17

ICONV = Interest rate conversion

Quarterly: N = 4

EAR = 
$$(1 + R/N)^N$$
 -1 EAR =  $(1+0.06/4)^4$  -1 =  $(1+0.015)^4$  - 1 =  $0.0614$  =  $\frac{6.14}{6.14} \neq 6.17$ , OR



Monthly: N = 12

EAR = 
$$(1 + R/N)^N$$
 -1 EAR =  $(1+0.06/12)^{12}$  -1 =  $(1+0.005)^{12}$  - 1 =  $0.0617$  =  $6.17$  =  $6.17$ , OR

2 MD 2 6 ENTER 
$$\downarrow$$
 12 ENTER  $\uparrow$  CPT = 6.17 for Monthly = 6.17

Therefore, the answer is **Monthly**.