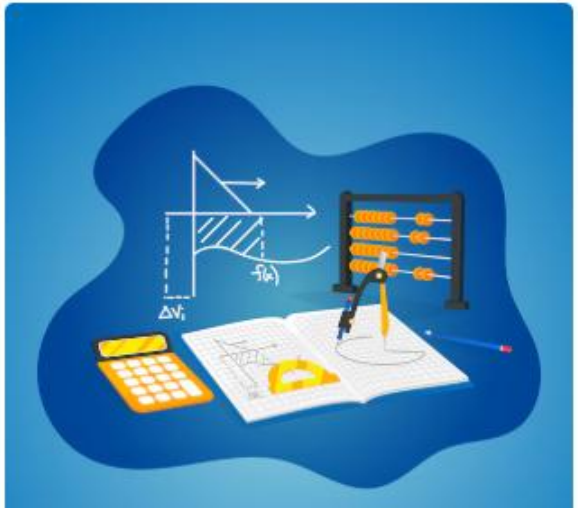
PW SKILLS | Aptitude Training

Quantitative Aptitude:
Number Systems

Unit's Place

Unit's Place: Cyclicity

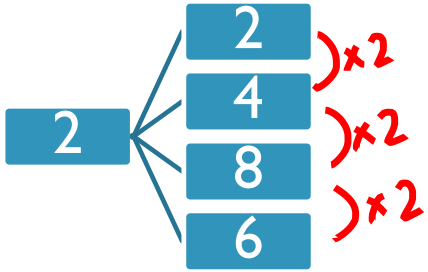


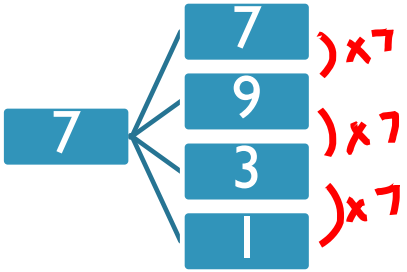
What is Cyclicity

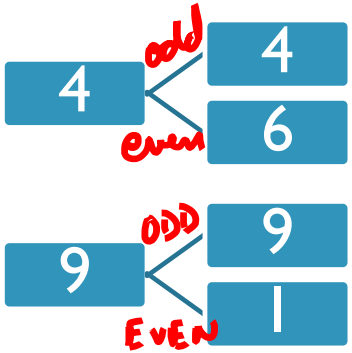
EXAMPLES:

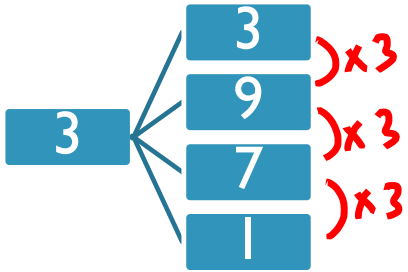
1. Months in a year
2. Days in a week
3. Hours in a day

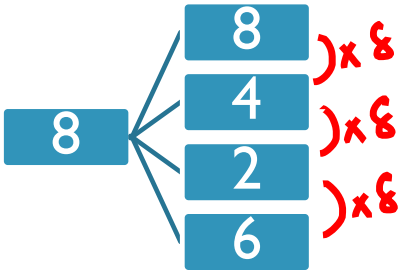
Power Cycles

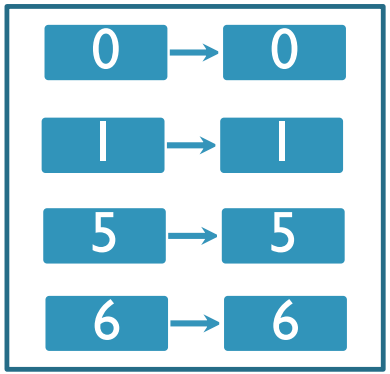








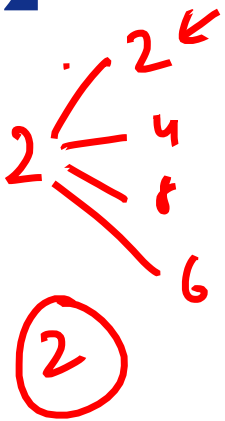




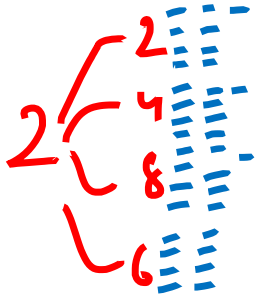
Application of Power Cycles

What is the last digit of the following expressions:

i) 2^5



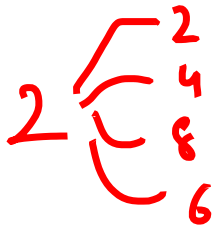
ii) 2^{35}



$\frac{35}{4}$ R → 3

$2^{35} \rightarrow 2^3 = 8$

Application of Power Cycles



What is the last digit of the following expressions:

iii) 2^{125}

$\frac{125}{4} \Rightarrow \frac{25}{4}$ R $\Rightarrow 1$

$2^{125} \Rightarrow 2^{1} = 2$

iv) ~~43~~2^{1234}

$\Rightarrow 2^{1234}$

$\frac{1234}{4} \Rightarrow \frac{34}{4}$ R $\Rightarrow 2$

$\Rightarrow 2^{2} = 4$

Thanks!