

Quantitative Aptitude: Number Systems

Unit's Place





Unit's Place: Problems Level 1





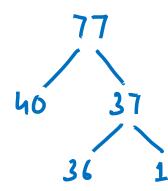
Q1. What is the last digit of the expression <u>777</u>??

A. 3

B. 1

C. 7

D. 9





Q2. The unit's digit of the product $3^{1001} \times 7^{22002} \times 13^{333003}$ is:

A. 3
$$3^{1001} \times 7^{22002} \times 3^{333003}$$

$$\Rightarrow 3^{01} \times 7^{02} \times 3^{03}$$

$$= 3 \times 9 \times 7$$

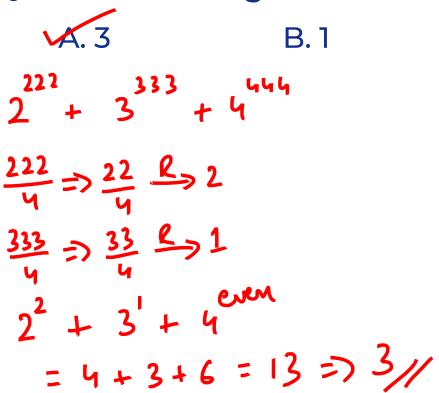
$$= 7 \times 7$$

$$= 9$$





Q3. The unit's digit of the sum $22^{222} + 33^{333} + 44^{444}$ is:





Q4. What is the last digit of the expression $13^{246} \times 98^{531} + 34^{567}$?

A.6

$$3^{246} \times 8^{531} + 4^{000}$$
 $3^{46} \Rightarrow 9^{46} \Rightarrow 2 \Rightarrow 3^{44} \Rightarrow 3^{44}$



Q5. What is the last digit of the expression $23^{1234} + 55^{777} \times 66^{888}$?

$$3^{1234} + 5 \times 6$$

$$\Rightarrow 3^{1234} + 0 \Rightarrow 3^{1234}$$

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

$$\Rightarrow 3^{2} = 9$$

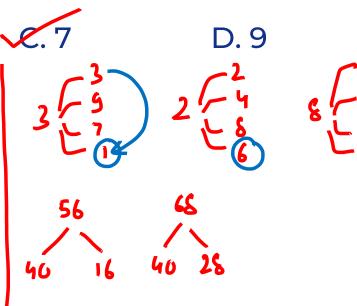


Q6. What is the last digit of the expression $123^{12} + 642^{56} \times 678^{468}$?

A. 3

B. 1

$$3^{12} + 2^{56} \times 8^{168}$$
 $\frac{12}{4} = 0 \mid \frac{56}{4} = 0 \mid \frac{468}{4} \Rightarrow \frac{68}{4} = 0$
 $1 + 6 \times 6$
 $\Rightarrow 1 + 6 \Rightarrow 7$







Thanks

