

REMINDER THEOROM

1. Find remainder

$$\frac{(173 + 139)}{19}$$

2. Find remainder

$$\frac{(1548 + 3028 + 1598)}{15}$$

3. Find remainder

$$\frac{(105 - 80)}{21}$$

4. Find remainder?

$$\frac{(175 - 110)}{21}$$

5. Find remainder

$$\frac{(348 - 121 - 104)}{17}$$



6. Find remainder

$$\frac{(32 * 33 * 34 * 35 * 36 * 37)}{17}$$

7. Find remainder

$$\frac{(243 * 245 * 247 * 249 * 251)}{12}$$

8. Find remainder

$$\frac{(553 + 378859 + 4768 + 59379)}{25}$$

9. Find remainder

$$\frac{(7361 + 11829 + 1769)}{8}$$

10. Find remainder

$$\frac{(158 * 68 * 197 * 819)}{11}$$

11. Find remainder

$$\frac{(137 * 71 * 77 * 93)}{15}$$

12. Find remainder

$$\frac{(89 * 113 * 78 * 101)}{66}$$

13. Find remainder

$$\frac{(19847 * 6743 * 4299 * 725)}{12}$$

14. Find remainder

$$\frac{(6397 * 9398 * 7007 * 3111)}{100}$$

TYPE - 02

1. Find the remainder

$$\frac{36^{99}}{7}$$

2. Find the remainder

$$\frac{45^{190}}{23}$$

3. Find the remainder

$$\frac{3^{80}}{80}$$

4. Find the remainder

$$\frac{2^{64}}{17}$$

5. . Find the remainder

$$\frac{6^{237}}{217}$$



6. Find the remainder

$$\frac{(68)^{29} + (66)^{31}}{67}$$

7. Find the remainder

$$\frac{(124)^{124} - 15}{25}$$

8. Find the remainder

$$\frac{(124)^{124} - 15}{25}$$

9. Find the remainder

$$\frac{(39)^{219} - 27}{38}$$

10. Find the remainder

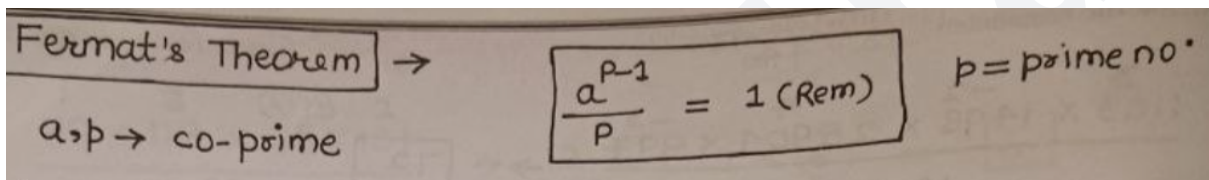
$$\frac{2^{96}}{96}$$

11. Find the remainder

$$\frac{2^{35}}{10}$$

12. Find the remainder

$$\frac{5^{500}}{500}$$



1. Find the remainder

$$\frac{38^{102}}{103}$$

2. Find the remainder

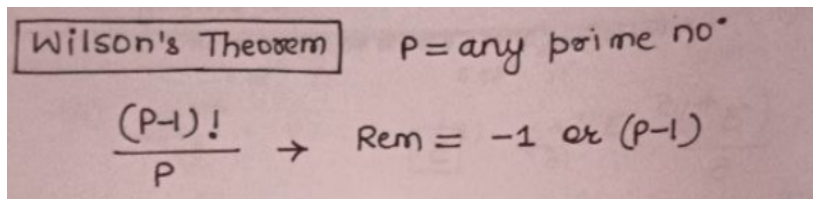
$$\frac{64^{30}}{31}$$

3. Find the remainder

$$\frac{72^{85}}{29}$$

4. Find the remainder

$$\frac{4^{2007}}{17}$$



Wilson's Theorem $p = \text{any prime no.}$

$$\frac{(p-1)!}{p} \rightarrow \text{Rem} = -1 \text{ or } (p-1)$$

1. Find the remainder

$$\left(\frac{126!}{127} \right)$$

2. Find the remainder

$$\frac{(190)!}{191}$$

Hem Mantra