

Main Question: What is the remainder when you divide a^p by p ?

1. Compute a^p for various values of a and p . What is your conjecture?

Find the remainders when you perform the following divisions. Try different values of a .

2. a^6 divided by 10?
3. a^9 divided by 15?
4. a^{13} divided by 21?
5. a^{2321} divided by 2419?