Powers mod Powers

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