

1. What is 2^5 ? **32**
2. What is 2×5 ? **10**
3. Is 2^5 the same as 2×5 ? Explain why or why not using full sentences.

Answers will vary. Sample answer:

Two raised to the fifth power is not equal to two times five since $2^5 = 32$ and $2 \times 5 = 10$.

4. What is three raised to the sixth power? **729**
5. What is six cubed? **216**
6. What is seven squared? **49**
7. What is four cubed? **64**
8. What is fifteen squared? **225**
9. What is six raised to the fourth power? **1,296**
10. If $3^x = 81$, then what is the value of x ? **$3^4 = 81$ so $x = 4$**
11. If $5^y = 625$, then what is the value of y ? **$5^4 = 625$ so $x = 4$**
12. What number raised to the fifth power equals 243? **3, since $3^4 = 81$ so $3^5 = 243$**
13. What number cubed equals 64? **4, since $4^3 = 64$**
14. What number raised to the fifth power equals 3,125? **5, since $5^4 = 625$, so $5^5 = 3,125$**