

Step 1: Solve each problem.**Step 2:** Check your answers below.**Step 3:** See your teacher to plan a time to reassess.*For each problem below, find the prime factorization. Consider using a tree or a ladder.*

1) 72	2) 250
3) 1512	4) 441
5) Is 33 a factor of $2^{11} \cdot 3^3 \cdot 7^9$ Why?	6) Find a number between 100-150 that has 2^4 in its prime factorization.

Answers: 1) $2^3 \times 3^2$ 2) 2×5^3 3) $2^3 \times 3^3 \times 7$ 4) $3^2 \times 7^2$
 5) No you would need an 11 in the prime factorization 6) 112, 128 or 144