

**Prime Time 4.2 Homework (Show all work on a separate paper.  
Use Factor Trees.)**

Find the prime factorization for each. Use exponents in your final answer.

**4.** 36

**5.** 180

**8.** 293

**9.** 760

**14. Multiple Choice** What is the prime factorization of 240?

**A.**  $10 \cdot 24$

**B.**  $2 \cdot 3 \cdot 5$

**C.**  $2^3 \cdot 3 \cdot 5$

**D.**  $2^4 \cdot 3 \cdot 5$

Explain your choice for #14 using complete sentences.

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