

## 8.R.2 Exercises

### Concept Check

**True/False.** Determine whether each statement is true or false. If a statement is false, explain how it can be changed so the statement will be true. (**Note:** There may be more than one acceptable change.)

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1. A prime number has exactly 1 factor.
2. A composite number has 2 or more factors.
3. 231 is a prime number.
4. All the factors of 30 are 1, 2, 3, 5, 6, 10, 15 and 30.

### Practice

Determine whether each number is prime or composite. If the number is composite, find at least three factors of the number.

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5. 47

6. 63

Find the prime factorization of each number. Use the tests for divisibility for 2, 3, 4, 5, 6, 9, and 10 whenever they help to find beginning factors.

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7. 125

8. 150

