

## Challenge

### Identify Prime and Composite Numbers

For exercises 1–4, identify each number as prime or composite.

1. 32 \_\_\_\_\_

2. 25 \_\_\_\_\_

3. 29 \_\_\_\_\_

4. 80 \_\_\_\_\_

5. Is the number 51 a composite or a prime number? List all the factors of 51.

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6. Is the number 91 a composite or a prime number? List all the factors of 91.

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7. **Analyze** Would you have predicted that 51 and 91 were composite numbers? Why do you think these two numbers might be mistakenly identified as prime?

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8. **Explore It** List other composite numbers that might be mistakenly identified as prime. Describe what these numbers have in common.

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### Identify Prime and Composite Numbers

For exercises 1–4, identify each number as prime or composite.

1. 32 \_\_\_\_\_ **composite**

2. 25 \_\_\_\_\_ **composite**

3. 29 \_\_\_\_\_ **prime**

4. 80 \_\_\_\_\_ **composite**

5. Is the number 51 a composite or a prime number? List all the factors of 51.

\_\_\_\_\_ **composite; 1, 3, 17, 51**

6. Is the number 91 a composite or a prime number? List all the factors of 91.

\_\_\_\_\_ **composite; 1, 7, 13, 91**

7. **Analyze** Would you have predicted that 51 and 91 were composite numbers? Why do you think these two numbers might be mistakenly identified as prime?

\_\_\_\_\_ **Answers may vary.**

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8. **Explore It** List other composite numbers that might be mistakenly identified as prime. Describe what these numbers have in common.

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