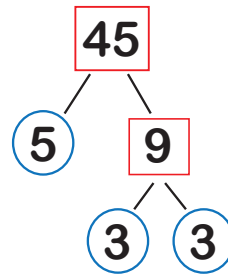# Factor Tree **Answer Key**

Factors are two or more numbers that can be multiplied together to get a new number.

In multiplication, we have:
- **Prime numbers**, which are whole numbers that have no other factor but 1 and itself.
- **Composite numbers**, which are whole numbers that have have other factors besides 1 and itself.

Factor Tree

```
      45
     /  \
    5    9
        / \
       3   3
```
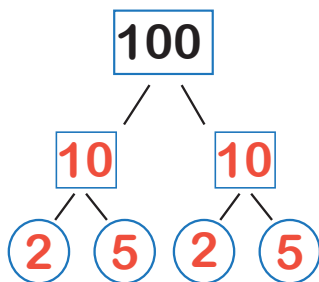
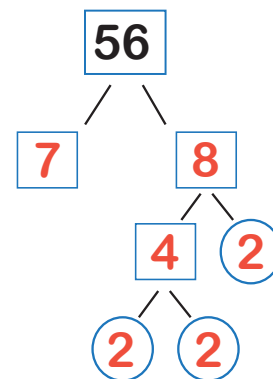Factors: 5, 9, 3

Prime Numbers: 5, 3

Composite Numbers: 45, 9

Directions: Complete the factor tree by listing all the factors for each number. Then, circle the prime numbers and box the composite numbers.
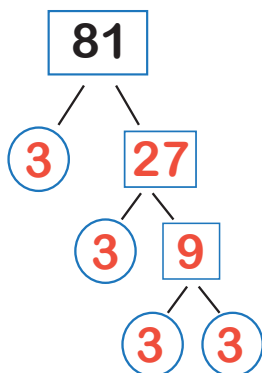
1.

```
       100
      /   \
    10     10
   /  \   /  \
  2    5 2    5
```

2.

```
     56
    /  \
   7    8
       / \
      4   2
     / \
    2   2
```

3.

```
      81
     /  \
    3    27
        /  \
       3    9
           / \
          3   3
```

4.

```
     70
    /  \
   2    35
       /  \
      7    5
```