# **Section Review**

Learn to Code with Ruby

#### Methods

- Objects have **methods**, which are commands we can send to the object.
- Objects have exclusive and shared methods. There are things only a String can do, things only an Integer can do, and things that both objects can do.
- The object that we invoke the method upon is called the receiver.

#### **Method Invocation**

- Invoke a method by writing a dot and the method name.
- Ruby supports parentheses after the method name but the community advises against it.
- A method produces a **return value**, which is the final *output* of the method.
- Method chaining involves arranging a sequence (chain) of methods in order. A method may produce a new Ruby object, which will have its own set of methods.

"hello world".length

"RUBY".downcase

1.succ

3.14.class

"5".to\_i.pred

# The NoMethodError Exception

 Ruby raises the NoMethodError exception when a method does not exist on an object.

# The nil Object

- The nil object represents emptiness, nothingness, the absence of a value.
- We can declare nil in line but usually we'll be receiving
  it as the return value of a method. puts is an example of
  a method that returns nil.

## **String Interpolation**

- String interpolation is the process of injecting content into a string. That content can be anything from a variable to a Ruby expression.
- Use a hashtag followed by opening and closing curly braces.

$$x = 5$$

$$y = 8$$

puts "The sum of #{x}
and #{y} is #{x + y}!"

# The gets Method

- The gets (get string) method receives a string from a user via input.
- The entry will include the newline (\n) from the user's Enter press. Call the **chomp** method on a string to remove a newline character from its end.
- Use a variable to preserve the user's entry if you'd like to use it later.

### The class Method

- A class is a blueprint for an object. The class is an abstract template, the object(s) are concrete entities.
- The object is called an instance of the class. The process of creating an object is called instantiation.
- The class method returns the class from which an object was made. For example, every string is an instance of the String class.

## **Object Conversion Methods**

- The to\_s method converts an object to a string.
- The to\_i method converts an object to a integer.
- The to\_f method converts an object to a float.