

Chapter 2: Interacting with Ruby

Student: _____

1. Using the IRB you can gain insight as to the way Ruby keyboards, operators, and commands work.
True False
2. The print method displays a line of text on the screen.
True False
3. *Nil* is a value that representing a value of 0.
True False
4. Unlike the print method the puts method displays text strings on separate lines.
True False
5. Unlike other programming languages, Ruby does not require programmers to follow any language specific rules.
True False
6. An expression is a series of keywords, operators and variables that when processed returns a result.
True False
7. A class is a definition or template used as the basis for defining a new object and does not do anything by itself.
True False
8. The term IRB stands for Interactive Ruby.
True False
9. In order to instantiate a new object you must use the new keyword.
True False
10. A method is a collection of statements that is predefined within a class that can be used to interact with and control the operation of objects created based on the class.
True False
11. Ruby programmers often use the IRB to test the execution of numeric expression like a calculator.
True False

12. Arithmetic expressions are evaluated based on a predetermined order referred to as the *order of examination*.
- True False
13. By default, any time two integer numbers are divided in Ruby, the value that is returned is always an integer.
- True False
14. The IRB is started from the operating system command prompt by entering `start irb` and pressing Enter.
- True False
15. You can easily access the documentation for most Ruby class methods via a system referred to as RDoc.
- True False
16. You can access RDoc online at <http://www.ruby-doc.org/>.
- True False
17. In addition to RDoc, you can view Ruby documentation using either the *ri* or the *vd* command line commands on your computer.
- True False
18. A floating point value is a number that does not include a decimal point.
- True False
19. You can access a special Internet based version of the IRB by visiting <http://tryruby.org/>.
- True False
20. The term instantiation describes a process whereby a new object is created.
- True False
21. Parentheses or quotation marks can be used to override the order of precedence.
- True False
22. Failure to follow Ruby's syntax rules when formulating script statements can result in an error that prevents your script from executing.
- True False
23. The IRB does not provide access to classes, objects or variables more than 5 minutes old.
- True False

If you require a greater level of precision when working with numeric data, you must specify floating-point numbers (e.g. numbers with a decimal)

True False

When working with module methods, you can refer to methods using upper or lower case spelling, just as long as you properly spell the method's name.

True False

The IRB ____.

A Provides Ruby
.programmers with
command line
access to the Ruby
parser.

B Can be used to test
. the effects of Ruby
statements.

C Can be used to
. load and execute
entire scripts.

D. All of the above.

Which of the following statements is not true?

- A. All IRB sessions share a common memory space.
- B. Classes, methods and variables that are defined in one IRB are not accessible in another session.
- C. New IRB sessions can be started by opening a new console window and typing IRB.
- D. New IRB sessions can be started from within an existing irb accessing by typing IRB.

A misspelled command is an example of what type or error?

- A. Logical
- B. Syntax
- C. Runtime
- D. None of the above

If you enter an incomplete Ruby statement into the IRB, it will ____.

- A. Execut
 e the
 incomp
 lete
 statem
 ents
 and
 generat
 e an
 error
- B. Display a modified
 .command prompt
 and wait on you to
 finish entering the
 statement
- C. Displa
 y a
 warnin
 g
 messag
 e and
 reject
 your
 input
- D. None
 of the
 above

When working with the IRB, you can ____.

A. Pass
the
IRB a
numbe
r of
statem

B. Pass
the
name
of a
Ruby
script
you
want
to
execut
e

C. Pass the name of a
. Ruby script along
with arguments for
that script

D. All of
the
above.

Which of the following statements is not true?

- A. An object is created based on a predefined class template

B. An object inherits all of the features of the class upon which it is based

- C. An object is a template that is used to define a class
- D. None of the above

The * operator is used to perform ____.

- A. Addition
- B. Multiplication
- C. Division
- D. Exponentiation

Which of the following commands display a line of text on the screen?

- A. puts
- B. display
- C. print
- D. both a and c

In addition to the standard set of mathematical operator methods, Ruby also provides you with access to a collection of mathematical methods stored in which module?

- A. Trig
- B. Calculus
- C. Math
- D. Arithmetic

The command `irb -v` ____.

- A. Starts the IRB and displays its version number

B. Starts the IRB in a . special graphic interface mode

- C. Closes the IRB
- D. None of the above

What value will the following expression evaluate to ____.

`irb(main):010:0> 7 * 4 / 3 - 4 % 3 + 8`

- A. 16
- B. 14
- C. 4
- D. 20

The % operator is used to perform ____.

- A. Addition
- B. Multiplication
- C. Division
- D. Modulus

An IRB session can be terminated by all of the following commands except ____.

- A. exit
- B. irb_quit
- C. irb -v
- D. irb_exit

You can instruct the IRB to load and execute a script named test.rb in c:\Ruby_Scripts\ using which of the following commands?

- A. load 'c:\Ruby_Scripts\test.rb'
- B. copy 'c:\Ruby_Scripts\test.rb'
- C. run 'c:\Ruby_Scripts\test.rb'
- D. execute 'c:\Ruby_Scripts\test.rb'

The math module includes many different types of methods that support advanced mathematical operations. Examples of the methods provided by this module include ____.

- A. sqrt
- B. acos
- C. cos
- D. All of the above

The following statement shows an incomplete statement entered into the IRB.

```
irb(main):003:0> 5 - 1 +
```

What of the following examples shows the modified command prompt that the IRB will display next?

- A.

```
irb(main):004:7:*
```
- B.

```
irb(input):004:0:>
```
- C.

```
irb(main):004:0*
```
- D.

```
irb(main):004:0:
```

According to Ruby's order of precedence, arithmetic expressions are resolved in which of the following orders?

- A. Exponentiation > multiplication, division, modulus > addition, subtraction
- B. Modulus > exponentiation > division, modulus > addition, subtraction
- C. Addition, subtraction, division, multiplication > modulus, exponentiation
- D. None of the above

What value will the following expression evaluate to?

```
irb(main):010:0> 4 + 7 * 3 - 7 / 2 + 5 ** 2
```

- A. 45
- B. 25
- C. 35
- D. 47

Ruby supports thousands of methods. You can use the ____ system to access documentation on these methods.

- A. ri
- B. RD
oc
- C. DocVie
w
- D. a
and
b

Which of the following command line commands will allow you to view information about the Numeric class's round method?

- A. ri.num
eric.ro
und
- B. ri numeric(round)
- C. vd numeric.round
- D. ri
Numer
ic.roun
d

What value will the following expression evaluate to?

irb(main):010:0> (4 + 7) * 3 - 7 / (2 + 5) ** 2

- A. 45
- B. 25
- C. 33
- D. 47

The round method is associated with many different classes, including all of the following except ____.

- A. Numer
ic
- B. Intege
r
- C. Float
- D. String

A string containing the \a escape character instructs Ruby to ____ when the statement that contains it executes.

- A. Beep
- B. Pause
- C. Termin
ate
- D. Insert a blank line

You can retrieve player input using which of the STDIN class's methods?

- A. puts
- B. gets
- C. retrieve
- D. catch

Which of the following is a valid way of creating a string within a Ruby statement?

- A. Embed text within an opening %Q{ and } characters.
- B. Embed text within a pair of double quotation marks.
- C. Embed text within a pair of single quotation marks.
- D. Both a and b.

In Ruby variable substitution is performed within a string by placing a variable name within what set of characters?

- A. %Q{ and }
- B. #{ and }
- C. % { and }
- D. { and }

Within your Ruby scripts, an escape character is a pair of characters that begin with the ____ character followed by a letter.

- A. #
- B. _
- C. !
- D. \

Which of the following statements is not true regarding indentation within your Ruby scripts?

- A. Indenting statements helps to visually organize them
- B. Indenting statements can make them easier to read and understand
- C. Indentation is required for your script to execute properly
- D. Indentation is consider a good programming practice

What does Ruby do when it has operators with the same level or precedence to evaluate?

- A. It processes them from left to right
- B. It processes them from right to left
- C. It processes all multiplication before division and all addition before subtraction
- D. It processes all division before multiplication and all subtraction before addition

A method ____.

- A. Is a collection of statements defined within a class
- B. Can be used to interact with objects
- C. Can be used to control the operation of an object
- D. All of the above

Chapter 2: Interacting with Ruby **Key**

1. TRUE
 2. TRUE
 3. FALSE
 4. TRUE
 5. FALSE
 6. FALSE
 7. TRUE
 8. TRUE
 9. TRUE
 10. TRUE
 11. TRUE
 12. FALSE
 13. TRUE
 14. FALSE
 15. TRUE
 16. TRUE
 17. FALSE
 18. FALSE
 19. TRUE
 20. TRUE
 21. FALSE
 22. TRUE
 23. FALSE
- TRUE
- FALSE
- D
- A
- B
- B
- D

C
B
D
C
A
A
D
C
A
D
D
D
C
D
A
B
D
B
D
C
A
D