Chapter 2: Data Types and Arithmetic Expressions

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1.	Data can take many forms, including numbers, individual alphabetic characters, strings of alphabetic characters, and numbers with specific decimal precision.					
	ANS: T	Γ	PTS:	1	REF:	16
2.	NSLog :	_	xtended	d set of function	nality fo	or outputting information such as the option to
	ANS: T	Γ	PTS:	1	REF:	16
3.	NSLog	takes at least	two str	ing parameters.		
	ANS: F	3	PTS:	1	REF:	16
4.	<pre>. The \n in the NSLog statement: NSLog(@"Please enter a number\n"); is a number specifier.</pre>					
	ANS: F	7	PTS:	1	REF:	17
5.	. In the Objective-C statement: scanf("%d", #); # is the name of a variable in which a number will be stored.					
	ANS: T	Γ	PTS:	1	REF:	17
6.	The Objective-C int data type is used to store a whole number that does not have a decimal point.					
	ANS: T	Γ	PTS:	1	REF:	18
7.	The Obj	jective-C cha	r data	type is used to	store st	rings of characters.
	ANS: F	7	PTS:	1	REF:	19
8.	The Objective-C float data type is used to store real numbers.					
	ANS: T	Γ	PTS:	1	REF:	20
9.	<pre>In the expression: int *prtValue = &value the & symbol before the variable named value gives its address location.</pre>					
	ANS: T	Γ	PTS:	1	REF:	21
10.	The Obj	jective-C id	data typ	e is typically u	sed to p	point to an object of an unknown data type.
	ANS: T	Γ	PTS:	1	REF:	23

11. The struct functionality in Objective-C allows a programmer to define a new data type venumerations.				a programmer to define a new data type with	
	ANS: F	PTS:	1	REF:	: 24
12.	In Objective-C, the	ne values ass	signed to enu	meratior	ons are of integer type.
	ANS: T	PTS:	1	REF:	: 25
13.	In the Objective- typedef the value of April	enum {Ja		March,	, April, May} Month;
	ANS: F	PTS:	1	REF:	: 25
14.	The #define st	atement in C	Objective-C is	s an exai	ample of a preprocessor.
	ANS: T	PTS:	1	REF:	: 26
15.	15. An advantage of using constants in a program is that, if the value of the constant needs to be change the programmer only needs to change it in one location rather than searching the entire program and modifying every instance.				
	ANS: T	PTS:	1	REF:	: 26
16.	Expressions that	contain oper	ands and ope	rators ar	are called arithmetic expressions.
	ANS: T	PTS:	1	REF:	: 26
17.	17. If the Objective-C operator div is used with integers and there is a nonzero remainder, it will roun up or down to the nearest integer.				egers and there is a nonzero remainder, it will round
	ANS: F	PTS:	1	REF:	: 27
18.	You can use either the same.	er pre or pos	t increment n	otation f	for increment operations since the results are always
	ANS: F	PTS:	1	REF:	: 30
19.	The Objective-C increment after the				evaluate the expression and then perform the
	ANS: F	PTS:	1	REF:	: 30
20.	20. The Objective-C subtract and assign operator, -=, first subtracts a value from a variable and then assigns this new value to the variable.				e, first subtracts a value from a variable and then
	ANS: T	PTS:	1	REF:	: 32
MUL	ГІРLЕ CHOICE				
1.		rogram requ	ires placehol	ders. A	placeholder holds data that changes as the
	· 1	_ 1		_	

program runs.

	a. constantb. variable		c. d.	string concatenated
	ANS: B	PTS: 1	REF:	16
2.	Data types help the Ca. compiler b. interpreter	Objective-C lan	c.	ocate memory for storage. memory manager programmer
	ANS: A	PTS: 1	REF:	16
3.	In Objective-C, cond a. addresses b. numbers	catenation is the	c.	nbining multiple into a single element. variables strings
	ANS: D	PTS: 1	REF:	16
4.	a. Scanfb. NSError		c. d.	ism used to output data to the console. NSLog NSOutput
	ANS: C	PTS: 1	REF:	16
5.	The NSLog function character that specifica. data-type b. format		c.	e tokens that start with the symbol %, followed by a foundation parameter
	ANS: B	PTS: 1	REF:	16
6.	NSLog takes one or format specifier start			of a string with format specifiers. The string with the
	a. % b. @		c. d.	& #
	ANS: B	PTS: 1	REF:	16
7.	reads input typ a. Read b. Readline	ed by the user.		Getf Scanf
	ANS: D	PTS: 1	REF:	17
8.	In the Objective-C st scanf ("%f, the variable num ha a. decimal b. real	#);	c.	integer float
	ANS: D	PTS: 1	REF:	17
9.	When using the sca double, you should u a. %n b. %ld			es the user to enter data that will be stored as a %f %lf
	ANS: D	PTS: 1	REF:	18

10.	a. char b. int	is usea i	o store a whole	c.	final does not have a decimal point. float double
	ANS: B	PTS:	1	REF:	18
11.	The data type is a. int b. char	is used t	o store a single	c.	er. character string
	ANS: B	PTS:	1	REF:	19
12.	The storage space ut	tilized by	y an Objective		
	a. 8 b. 32				64 128
	ANS: B	PTS:	1	REF:	20
13.	The storage space ut	tilized by	y an Objective		
	a. 8 b. 32				64 128
	ANS: C	PTS:	1	REF:	20
14.	Various combination these data types calle a. complex		sic data types c		sed to create more complex data types. What are derived
	b. combined				double
	ANS: C	PTS:	1	REF:	21
15.	The type holds	a memo	ory location wl	here data	a is stored.
	a. pointerb. id				main struct
	ANS: A	PTS:	1	REF:	21
16.	In Objective-C code	, a varia	ble of type	is crea	ated by using the * symbol.
	a. charb. struct				pointer id
	ANS: C	PTS:	1	REF:	
17.	a pointer mean a. Dereferencing b. Extracting	is extrac	ting the value	c.	ter is pointing to. Releasing Deriving
	ANS: A	PTS:	1	REF:	· ·
18.	The Objective-C NS	Log for	mat specifier f	or a noi	nter variable is
-0.	a. %d	9101		c.	%n
	b. %v	DEC.			%p
	ANS: D	PTS:	1	REF:	22

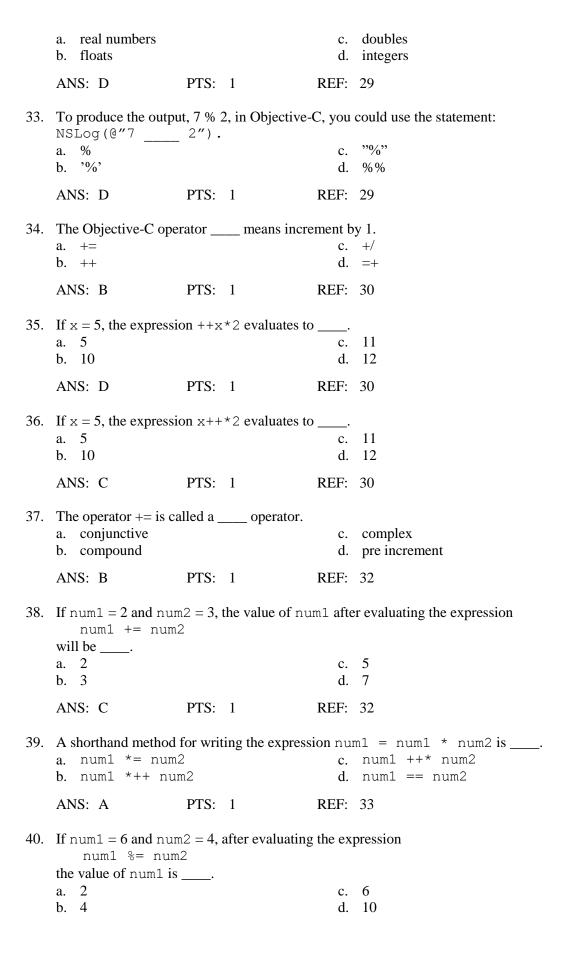
19. Given the following code segment:

```
int num = 5;
       int * ptrValue;
       ptrValue = #
    where the memory address holding num is 0x7fff6506989c, the output from the statement
    NSLog(@"%d", *ptrValue) is ____.
    a. 5
                                              c. num
    b. 0x7fff6506989c
                                              d. 5 0x7ff6506989c
    ANS: A
                        PTS: 1
                                           REF: 22
20. The _____ type is a generic data type that stores data of any type.
                                              c. pointer
    b. struct
                                              d. gen
    ANS: A
                        PTS: 1
                                           REF: 23
21. The _____ type is a combination of several data types that creates a new custom data type. It is a
    remnant of the original C language, before object oriented programming was introduced.
                                              c. pointer
    b. struct
                                              d. gen
    ANS: B
                        PTS: 1
                                           REF: 23
22. Given the following Objective-C code segment:
    struct ball
       {
          int num;
          float size;
         char color;
       };
    struct ball b;
    which of the following statements would set the value of the property num of the newly created
    variable to 5?
    a. ball.num = 5;
                                              c. struct.ball = 5;
    b. b.num = 5;
                                              d. struct.b = 5;
                        PTS: 1
    ANS: B
                                           REF: 23
23. ____ notation is used to populate and retrieve the values of variables in a structure.
    a. Char
                                              c. Dot
    b. Struct
                                              d. #
    ANS: C
                        PTS: 1
                                           REF: 24
24. In Objective-C, the term ____ means a defined range of values for a variable.
    a. itemization
                                              c. list
    b. enumeration
                                              d. inventory
    ANS: B
                        PTS: 1
                                           REF: 24
25. In the following section of code, the programmer did not specify the value that should be associated
```

25. In the following section of code, the programmer did not specify the value that should be associated with each month.

	Jan, Feb, March, April, May, } Month;			
	By default, the first	month, Jan, w	rill be assigned t	he value
	a. 0 b. 1		c. d.	%undefined %error
	ANS: A	PTS: 1	REF:	25
26.	The in Objecti a. debugger b. compiler	ve-C is a specia	c.	s you create custom statements. importer preprocessor
	ANS: D	PTS: 1	REF:	26
27.	The Objective-Ca. #const b. #preprocess		c.	constants and associate them with unique names. #define #customize
	ANS: C	PTS: 1	REF:	26
28.	Objective-C arithmea. compound b. complex	etic operators ca	an be divided in c. d.	to basic and assignment operators. modulus enumerated
	ANS: A	PTS: 1	REF:	26
29.	The character % rep a. percent b. modulus	resents the Obj		assignment operator assign divide
	ANS: B	PTS: 1	REF:	26
30.	Given that the integrex expression: div = num1 is		and the integer	num2 = 15, the value of the variable div in the
	a. 0 b625		c. d.	1 1.6
	ANS: C	PTS: 1	REF:	27
31.	The modulus operat	or returns the _	after division	on.
	a. divisorb. dividend			remainder quotient
	ANS: C	PTS: 1	REF:	
32.	The Objective-C mo	odulus operator	only works on	

typedef enum {



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ANS: A

PTS: 1

REF: 34