

### Commands

Help or /?	gets available commands, or displays help info for commands	echo /?
echo	prints following info to STDOUT	echo hello world
type	prints file contents to STDOUT	type helloWorld.txt
>	redirect; sends output to file	command > filename
>>	append	command >> filename
<	type's <i>filename</i> and sends text to <i>command</i>	command < filename
2>	sends error message to file	echpo 2> error.txt
	pipes output from left to right	command1   command 2
hostname	displays hostname of system	hostname
ver	displays windows version	ver
vol	displays disk volume label and serial number	vol
systeminfo	config information for local or remote machine; <b>includes service pack levels</b>	systeminfo
set	used to manage variables	set mySweetVariable=whatItEquals
cd	"change directory"; displays the name of current or changes directory	cd c:\
dir	"directory"; used to display contents of files and sub directories of current working directory	dir c:\myDirectory
mkdir/md	make directory	md c:\myDirectory\childDirectory
rmdir/rd	remove directory	rd c:\myDirectory\childDirectory
more	prints to STDOUT, but one screen at a time	more reallyLongText.txt
copy	copies one or more files to another location	copy file.txt c:\newLocation\file.txt
xcopy	copies files and filders	xcopy c:\misplacedDirectory c:\correct\rightSpotDirectory
move	moves files from one folder till another	move .\document.txt c:\document.txt
ren/rename	rename a file or files	ren monday.txt Tuesday
del	deletes one or more files	del basura.txt
find	search for a text string in a file & display all the lines where it is found	find \I "hard to find text
findstr	search for a text string in a file & display all the lines where it is found; supports regular expressions	findstr /r "[1-9][0-9]" sales.txt
attrib	displays or changes files attributes <b>if a file has the System or Hidden attribute set, you must clear that attribute before you can change any other attributes</b>	attrib +H +S makeMeHiddenAndSystem.txt

### Commands (cont)

icacls	change file and folder permissions - display or modify Access Control Lists (ACLs) for files and folders <b>RTFM (Read The F@\$ing Manual)</b>	Read the Damned Help File
fc	compare the contents of two files or sets of files; display any lines which do NOT match	<code>fc fileOne.txt fileTwo.txt</code>
comp	compare two files (or sets of files) ; display items that do not match	<code>comp fileOne fileTwo</code>
shutdown	shutdown or restart a computer	<code>shutdown /t 120</code>
tasklist	displays all running applications and services with their Process ID (PID) This can be run on either a local or a remote computer	<code>tasklist /FI "IMAGENAME eq Calculator.exe"</code>
sc	Service Control - Create, Start, Stop, Query or Delete any Windows SERVICE. The command options for SC are case sensitive	<code>sc query type= driver <b>RTFM</b></code>
net	manage network resources	<code>net group "administrators" /domain <b>RTFM</b></code>
ipconfig	displays network adaptor information	<code>ipconfig /all</code>
ping	test a network connection - if successful, ping returns the ip address	<code>ping -n 1 8.8.8.8</code>
tracert	"tracer route" tracks path to destination and counts hops (can also resolve ip addresses if used on domain names)	<code>tracert WRKST002</code>
netstat	display current TCP/IP network connections and protocol statistics	<code>netstat -a <b>RTFM</b></code>
time	displays time	<code>time /T</code>
date	displays date	<code>date /T</code>

Success and failures for commands are based on the Exit Code of the command.

In most cases the Exit Code is the same as the ErrorLevel

Numeric handles:

STDIN = 0 Keyboard input

STDOUT = 1 Text output

STDERR = 2 Error text output

UNDEFINED = 3-9

### Make Macro For Answer Sheet Creation

```
doskey banner=(echo. ^& echo *** Step $* *** ^& echo.) ^>^> c:\location\answers.txt
```

**MAKE SURE YOU PUT YOUR ANSWER FILE IN THE RIGHT PLACE**

