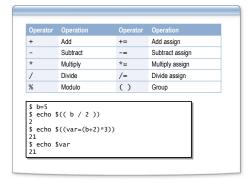
Chapter 11			
Advanced Programming			
Advanced Frogramming			
	,		
Overview			
Shell Arithmetic     The and a set Statement			
The select Statement Terminal Independence in Scripts			
• The eval Command			
	,		
Lesson: Shell Arithmetic			
Working with arithmetic			
Arithmetic Operators     Working with Numeric Data			
-			
	J		

# **Working with Arithmetic**

# • Shell has built-in rudimentary arithmetic capabilities • Arithmetic expansion - \$((expression)) • Expr command • Example: \$ count=19 \$ x=5((4+count)) \$ y=5(expr \$count + 8) \$ echo \$x \$y 23 27 • Korn shell family can recognize let command and arithmetic test ((expression)) \$ let "x = 4 + count" \$ if ((x > 3)) ...

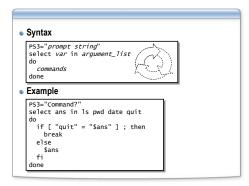
## **Arithmetic Operators**



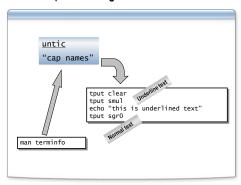
# **Working with Numeric Data**

bc	Desktop calculator
eval	Evaluate command
awk	UNIX command/program language
perl	UNIX command/program language
ls -1 file   cut	Pipelines producing numbers
\$(wc -1 < file)	Command substitution producing numbers
\${#string}	Length of string variable contents
\$\$	Current shell Process ID (PID)
\$PPID	Integer number of parent process
\$RANDOM	Random integer
\$SECONDS	Elapsed seconds

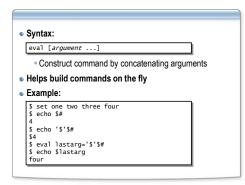
# Lesson: The select Statement



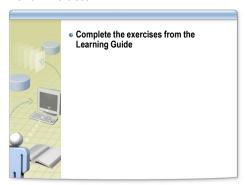
## Lesson: tput - change terminal characteristics



## Lesson: The eval Command



## **Review Exercises**



# **Topics for Review**

