## 2.1 미니탭(minitab) 소개

- 미니탭은 1972년 통계분석을 위한 교육용 프로그램으로 개발
- 현재 공학, 사회학, 심리학, 경영학 등 모든 분야에서 통 계분석을 위해 사용
- 산업현장에서 식스시그마 경영이 도입되면서 미니탭의 활용이 점점 높아 지고 있음
- 통계자료 분석 소프트웨어로 다른 언어에 비해서 절차
   및 문법이 단순하기 때문에 쉽게 사용 가능

[[요약]]

1.품질관리 ( English ? )

2. 품질구분

 (1) 설계품질
 (2) (
 (3) 서어비스의품질

Deming's Control Cycle 개념의 기초?
 즉,계획-실시-검토-조치과정은
 (품질의 계속적인 개선활동을 중요시하는 개념에 기초)

4. 품질관리, 통계적품질관리, 전사적품질관리, 무결점, 사회적품질관리, 전사적품질경영, 6시그마

## 2.2 미니탭의 기능

메 뉴	설 명
기 굿 트 게	통계량 구하기, 검․추정, 상관분석,공분산
기소공계	분석, 카이제곱 검정 등
그래프분석	히스토그램, 파레토도, 산점도, 상자그림 등
다변량 분석	주성분분석, 요인분석, 군집분석 등
시리드 미 새조브서	분포분석, 생존 데이터의 회귀분석, 수익분
	석 등
시계열분석	추세분석, ARMIA 등
시허게히버	분산분석, 회귀분석, 요인실험, 혼합물실험,
걸임계획급	반응표면, 다구찌법 등
프지ㄷ그	공정능력분석, 각종 관리도, 특성요인도,
	Gage R&R, 정규검정, 검출력과 샘플크기

### 2.3 미니탭 시작하기



## 2.4 미니탭 메뉴

#### 2.4.1 파 일

🚬 МІ	NITAB -	제목 없음												_ 7 🛛
파일	닐( <u>F</u> ) 편집(	<u>E)</u> 데이터( <u>A</u> )	계산( <u>C</u> ) 통	통계학( <u>S</u> )	그래프( <u>G</u> ) 편	[집기( <u>D</u> ) 도구	!( <u>T</u> ) 창( <u>₩</u> )	도움말( <u>H</u> )						
	새로 만들기	''( <u>N</u> )	Ctrl-	N 🖡 🕯	4 #   🛇 🤋	' 🗊 🛛 +🕻 🗖	h 🕞 🕕 🖻	) 🗐 📬 🖾		医   -=		1 A. C.	1	
( 🗳 🖬	프로젝트 일 프로젝트 제 다른 이름의 프로젝트 실	불기( <u>O</u> ) 태장( <u>S</u> ) 2로 프로젝트 저 설명( <u>B</u> )	Ctrl- Ctrl- 장( <u>A</u> )	•0 •S <b>9</b> -										
2	워크시트 일 현재 워크시 다른 이름의 워크시트 실 워크시트 팀	┋기(₩) 시트 저장( <u>C</u> ) 2로 현재 워크시 할명(D) 할기(L)	트 저장( <u>E</u> ).	- 노굼	방물 모시려	신 비흥 누의	접시오.							
OD BC	데이터베이 그래프 열기 그 밖의 파 다른 이름의	<mark>스(ODBC) 질의 '!(<u>G</u>) 일들(E) 2로 창 저장(⊻),</mark>	 	•										×
6	워크시트 인	민쇄( <u>P</u> )	Ctrl											
	인쇄 설정(	Ŋ		C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14 🔷
	종료( <u>X</u> )			_										
2														
3														
4														
<b>n</b>														
ě –														
6 7														
6 7 8														
6 7 8 9														
6 7 8 9 10														
6 7 8 9 10 11														
6 7 8 9 10 11														
6 7 8 9 10 11 12 Minital	1 1 5 5 5 6 5 6 1 8 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	주셔서 감사함	니다. 도움말	을 보시려	면 F1을 누르십.	н И.S.								<b>9:19 PM</b>

#### 2.4.2 편집

🔰 MINIT	AB - XI	목 없음												_ @ 🗙
] 파일(E)	편집( <u>E</u> )	데이터( <u>A</u> )	계산( <u>C</u> ) 통	통계학( <u>S</u> ) 그리	ዘ프( <u>G</u> ) 편갑	집기( <u>D</u> ) 도구	<sup>1</sup> ( <u>T</u> ) 창( <u>₩</u> )	도움말( <u>H</u> )						
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हि भारत	요타	I 실행 불가능	:( <u>R</u> )	Ctrl+Y										
	⊘ 셀기	지우기( <u>e</u> E)		Backspace										
II	_ 🗙 셀 《	삭제( <u>D</u> )		Delete	L									
Minital	· • • • • • • • • • • • • • • • • • • •	록사( <u>C</u> )		Ctrl+C	비시거며	1 티음 노리	2시 사이							
minica	· X 셀 4	달라내기( <u>1</u> )		Ctrl+X	1±//GC	: 112 T-								
		볼데넣기( <u>P</u> )		Ctrl+V										
	링크	한 붙여넣기( <u>L</u> )	)											
	워크	1시트 링크( <u>K</u>	)	I	•									
	모든	E 셀 선택( <u>A</u> )		Ctrl+A										
	圓 마지	막 대화 상지	에서 편집(])	) Ctrl+E										
	명령	5줄 편집기( <u>M</u>	D	Ctrl+L										~
<					_									<b>&gt;</b>
躍 워크.	시트 1 +	**												
+	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14 🔷
1														
2														
4														
5														
6														
7														
8														
9														
<														×
And a second														

#### 2.4.3 데이터

🚬 MINITAB - 🛪	목 없음											_ 7 🛛
_ 파일(E) 편집( <u>E</u> )	) 데이터( <u>A</u> ) 계산( <u>C</u> ) 분	통계학( <u>S</u> ) 그	.래프( <u>G)</u> 편	편집기( <u>D</u> ) 도구	<sup>1</sup> ( <u>T</u> ) 창( <u>₩</u> )	도움말( <u>H</u> )						
🖻 🖬 🎒 🐰	📜 워크시트의 부분 집	집합 취하기( <u>B</u> )	🧃	2 🗊 🛛 📲	h 🕞 🛈 🖻	) 🗒 🍖 🖸		<b>」</b>		20 1. 0	2	
EP ULA	🕂 워크시트 분할( <u>P</u> )						,					
I AIC	📲 워크시트 병합( <u>M</u> ).											
	복사( <u>C</u> )		+									-
	_ ➡ 열 분할(∐)											
Minitab 볼 이 <sup>,</sup>	<sup>끋</sup> 쌓기( <u>T</u> )		• ⊟	면 비를 누의	릴십시오.							
	🚡 열 전치( <u>A</u> )											
	<mark>食↓</mark> 정렬( <u>S</u> )											
	<sup>3</sup> 1 <sub>2</sub> 순위( <u>B</u> )											
	ᆿ⊁ 행 삭제( <u>D</u> )											
	- <i>Q</i> ar 변수 지우기( <u>E</u> )											
	코드(0)		•									
	데이터 유형 변경()	H)	•									> .:
·····································	날짜/시각에서 추릴		•									
▓ 워크시트 1 ≠	날짜/시각에서 추립 ^t 병합( <u>N</u> )	 ≦( <u>X</u> )	•	66	07	<u> </u>	<u></u>	C10	011	010	012	
₩ 원크시트 1 • • C1	날짜/시각에서 추름 ^: 병합( <u>N</u> ) 데이터 표시(I)	≦· ≦(∑)		C6	C7	C8	C9	C10	C11	C12	C13	C14
₩ 원크시트 1 + + C1	날짜/시각에서 추별 ^* 병합( <u>N</u> ) 聞 데이터 표시(!)	≦( <u>X</u> )		C6	C7	C8	C9	C10	C11	C12	C13	C14
₩ <u>₩</u> ⊒ <u>₩</u> <u></u> + <u>C1</u> 1 2	날짜/시각에서 추름 ^: 병합( <u>N</u> ) []] 데이터 표시(!)	 ĝ(X)		C6	C7	C8	C9	C10	C11	C12	C13	C14
₩     Ħ     H     I       +     C1       1       2       3	날짜/시각에서 추별 수놓 병합( <u>N</u> ) []] 데이터 표시([)	≦(X)		C6	C7	C8	C9	C10	C11	C12	C13	C14
♥     ●       +     C1       1	날짜/시각에서 추립 4월 병합( <u>N</u> ) (1) 데이터 표시(!)	≦ (X)		C6	C7	C8	C9	C10	C11	C12	C13	C14
₩     Ħ     H     I       +     C1       1     -       2     -       3     -       4     -       5     -	날짜/시각에서 추립 ^* 병합( <u>N</u> ) 데이터 표시( <u>I</u> )	≦ (X)		C6	C7	C8	C9	C10	C11	C12	C13	
第⊒从트 1 +         +       C1         1	날짜/시각에서 추별 수능 병합( <u>N</u> ) 데이터 표시(!)	 출(X)		C6	C7	C8	C9	C10	C11	C12	C13	C14
♥       1         ↓       C1         ↓       C1         1	날짜/시각에서 추별 4: 병합( <u>N</u> ) ① 데이터 표시(!)	 출(X)		C6	C7	C8	C9	C10	C11	C12	C13	
₩       𝔑       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅       𝔅 <th< td=""><td>날짜/시각에서 추립 At 병합(<u>N</u>) ① 데이터 표시(<u>1</u>)</td><td></td><td></td><td>C6</td><td>C7</td><td>C8</td><td>C9</td><td>C10</td><td>C11</td><td>C12</td><td>C13</td><td></td></th<>	날짜/시각에서 추립 At 병합( <u>N</u> ) ① 데이터 표시( <u>1</u> )			C6	C7	C8	C9	C10	C11	C12	C13	
♀       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○       ○	날짜/시각에서 추별 4			C6	C7	C8	C9	C10	C11	C12	C13	
♀       ○       1         ↓       C1         ↓       C1         1       ○         1       ○         3       ↓         5       6         7       8         9       10          □	날짜/시각에서 추행 At 병합( <u>N</u> ) 데이터 표시( <u>1</u> ) 데이터 표시( <u>1</u> )			C6	C7	C8	C9	C10	C11	C12	C13	
♀       >         ↓       C1         ↓	날짜/시각에서 추립 수: 병합( <u>N</u> ) 데이터 표시( <u>I</u> )				C7	C8	C9	C10	C11	C12	C13	

#### 2.4.4 계 산



#### 2.4.5 통계분석

📶 Minitab - 제목 없음								
] 파일(E) 편집( <u>E</u> ) 데이터( <u>A</u> ) 계산( <u>C</u> )	통계분석( <u>S</u> ) 그래프( <u>G</u> )	편집기( <u>D</u> ) 도구(	<u>I</u> ) 창( <u>₩</u> ) 도움	:말( <u>H</u> ) 보조 또	⊒7( <u>N</u> )			
🚰 🖬 🚑 🐰 🖻 💼 🗠 က 🖳	기초 통계( <u>B</u> )	) 🕂 🔂 🕞 🛛	🛈 🖻 🗒 🍡	i   E 🖩 I	医  )	f <sub>*</sub> = = = = =		\$ A. 0
■加ク	회귀 분석( <u>R</u> )	•						
00 10 14/00/10	문산 문작( <u>A</u> ) 실험계획법( <u>D</u> )	•						
	관리도( <u>C</u> )	•						
Minitab을 시작합니다. 도움말을 보려면	품질 도구( <u>Q</u> )	•						
	신뢰성/생존 분석( <u>L</u> )	•						
	다변량 분석( <u>M</u> )	•						
	시계열 분석( <u>S</u> )	•						
		•						
	미모수 동계( <u>N</u> ) 탄생정 고근 보성(E)							
	검색색 사표 문역( <u>C</u> ) 건정력 및 표보 크기(P)							
	10 1 2 42 1.1(2)							
표· ㅋ그시드 ㅣ ***	01 05 00	07	00 00	010				
+ C1 C2 C3	C4 C5 C6	C7	C8 C9	C10	CII	C12	C13	C14
1								
2								
Minitab을 시작합니다. 도움말을 보려면 F1 키	를 누르십시오,						편집가능	

#### 2.4.6 그래프

🚬 MIN	ITAB - J	해목 없음													_ 7 🗙
파일(	<u>F</u> ) 편집( <u>B</u>	) 데이터( <u>A</u> )	계산( <u>C</u> )	통계학( <u>S</u> )	그래	Ⅰ프( <u>G)</u> 편집기([	) 도구	·( <u>T</u> ) 창( <u>₩</u> )	도움말( <u>H</u> )						
🚅 🖪		. • • • ·		l t L i	1	산점도( <u>S</u> )			) 🗐 🃬 🖄	C 📰 🖩	<b>K</b> -		20 1 0	2	
<u></u>					<u></u>	행렬도( <u>M</u> )							1		
E, AI					Ē.	주변 분포도( <u>N</u> )									
		0004 07	00 14	40.10	մհ	히스토그램( <u>H</u> )									<u>^</u>
		2004-07	-22 14:	49:18	<u></u>	닷플롲( <u>D</u> )									
Mini	tab 을 O	용해 주셔서	감사합	니다. 도움	1 14	줄기-잎 그림( <u>F</u> ).		십시오.							
					1	확률 플롯(⊻)									
					2	ECDF( <u>E</u> )									
					ló n Ó	상자 그림(B)									
					III	구간 플롯(I)									
					11	개별 값 플롯(⊻).									
						국내 자르( <u>1</u> )									~
<					<b>•</b>										>
-															
2 月	크시트 1	***				시계열도( <u>T</u> )									
<b>Ⅲ</b> 위: ↓	크시트 1 C1	•••• C2	C3	C4		시계열도( <u>T</u> ) 영역 그래프( <u>A</u> )		C7	C8	C9	C10	C11	C12	C13	C14 ^
<mark>譜</mark> 위: +	크시트 1 C1	 C2	C3	C4		시계열도( <u>T</u> ) 영역 그래프( <u>A</u> ) 등고선 플롯( <u>C</u> )		C7	C8	C9	C10	C11	C12	C13	C14
<mark>譜                                    </mark>	크세트 1 C1	C2	C3	C4		시계열도( <u>T</u> ) 영역 그래프( <u>A</u> ) 등고선 플롯( <u>C</u> ) 3D 산점도( <u>3</u> )		C7	C8	C9	C10	C11	C12	C13	C14
<ul> <li>₩</li> <li>₩</li> <li>1</li> <li>2</li> </ul>	<mark>크시트 1</mark> C1	C2	C3	C4	⊻ ▲ %	시계열도(T) 영역 그래프( <u>A</u> ) 등고선 플롯( <u>C</u> ) 3D 산점도( <u>3</u> ) 3D 표면 플롯( <u>U</u> ).		C7	C8	C9	C10	C11	C12	C13	C14
₩ 91 + 1 2 3	크시트 1 C1	C2	C3	C4	∠  ▲  ¥  %	시계열도(T) 영역 그래프( <u>A</u> ) 등고선 플롯(C) 3D 산점도( <u>3</u> ) 3D 표면 플롯( <u>U</u> ).	•	C7	C8	C9	C10	C11	C12	C13	C14
● 発き	크시트 1 C1	C2	C3	C4	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓  ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓<	시계열도(I) 영역 그래프( <u>A</u> ) 등고선 플롲( <u>C</u> ) 3D 산점도( <u>3</u> ) 3D 표면 플롲( <u>U</u> ).		C7	C8	C9	C10	C11	C12	C13	C14
₩     भ       1     2       3     4       5	크시트 1 C1	C2	C3	C4	レ ▲ ジ ジ	시계열도(T) 영역 그래프(A) 등고선 플롲(C) 3D 산점도(3) 3D 표면 플롯(U).	•	C7	C8	C9	C10	C11	C12	C13	C14
<ul> <li>₩ 91</li> <li>↓</li> <li>1</li> <li>2</li> <li>3</li> <li>4</li> <li>5</li> <li>6</li> <li>7</li> </ul>	<mark>근시트 1</mark> C1	C2	C3	C4	レン 14 ジェ ※ ※	시계열도(T) 영역 그래프( <u>A</u> ) 등고선 플롯(C) 3D 산점도( <u>3</u> ) 3D 표면 플롯( <u>U</u> ).		C7	C8	C9	C10	C11	C12	C13	
<ul> <li>₩ 91</li> <li>↓</li> <li>1</li> <li>2</li> <li>3</li> <li>4</li> <li>5</li> <li>6</li> <li>7</li> <li>8</li> </ul>	⊇시트 1 C1	C2	C3	C4	✓	시계열도(丁) 영역 그래프( <u>A</u> ) 5고선 플롲( <u>C</u> ) 3D 산점도( <u>3</u> ) 3D 표면 플롲( <u>U</u> ).	•	C7	C8	C9	C10	C11	C12	C13	C14
<ul> <li>₩</li> <li>1</li> <li>2</li> <li>3</li> <li>4</li> <li>5</li> <li>6</li> <li>7</li> <li>8</li> <li>9</li> </ul>	크시트 1 C1	C2	C3			시계열도(T) 영역 그래프(A) 등고선 플롲(C) 3D 산점도(3) 3D 표면 플롲(U).	•	C7	C8	C9	C10	C11	C12	C13	
<ul> <li>₽</li> <li>1</li> <li>2</li> <li>3</li> <li>4</li> <li>5</li> <li>6</li> <li>7</li> <li>8</li> <li>9</li> <li>10</li> </ul>	Z시트 1 C1		C3		レビ し 通 デ デ 一 の の の の の の の の の の の の の	시계열도(T) 영역 그래프(A) 등고선 플롯(C) 3D 산점도(3) 3D 표면 플롯(U).	•••••••••••••••••••••••••••••••••••••••	C7	C8	C9	C10	C11	C12	C13	
<ul> <li>₽</li> <li>1</li> <li>2</li> <li>3</li> <li>4</li> <li>5</li> <li>6</li> <li>7</li> <li>8</li> <li>9</li> <li>10</li> <li></li> </ul>	<mark>근시트 1</mark> C1		C3		レビ し 単 次 、 、 、 、 、 、 、 、 、 、 、 、 、	시계열도(T) 영역 그래프( <u>A</u> ) 등고선 플롯(C) 3D 산점도( <u>3</u> ) 3D 표면 플롯( <u>U</u> ).	•	C7	C8	C9	C10	C11	C12	C13	
<ul> <li>₽</li> <li>1</li> <li>2</li> <li>3</li> <li>4</li> <li>5</li> <li>6</li> <li>7</li> <li>8</li> <li>9</li> <li>10</li> </ul>	2시트 1 C1	C2	C3			시계열도(T) 영역 그래프(A) 등고선 플롯(C) 3D 산점도(3) 3D 표면 플롯(U).		C7	C8	C9	C10	C11	C12	C13	
<ul> <li>♀</li> <li>♀</li> <li>1</li> <li>2</li> <li>3</li> <li>4</li> <li>5</li> <li>6</li> <li>7</li> <li>8</li> <li>9</li> <li>10</li> <li>&lt; ■</li> <li>Pr</li> <li>Atom E</li> </ul>	2시트 1 C1 		C3		レビ は 第 第 第 第 第 一 第 一 第 一 第 一 第 一 第 一 第 一 第 一 第 一 第 一 第 一 第 一 第 一 第 一 第 一 第 一 第 一 第 一 第 一 第 一 第 一 第 一 第 一 第 一 第 一 第 一 第 一 二 一 二 一 二 一 二 一 二 一 二 一 二 一 二 一 二 一 二 一 二 二 二 一 二 二 二 二 二 二 二 二 二 二 二 二 二	시계열도(T) 영역 그래프(A) 등고선 플롯(C) 3D 산점도(3) 3D 표면 플롯(U).	•	C7	C8	C9	C10	C11	C12	C13	C14

### 2.5 미니탭의 기초

2.5.1 파일 불러오기 / 저장 (1) 불러오기 (가나다판매.MTW)

<미니탭 파일 열기> C:>프로그램>미니탭>미니탭17>한국어>표본데이터에서,

1. 파일 > 워크시트 열기 선택

i Mi	NITAB - 계목 없음									arona 💶	٦×
	B(E) 면접(E) 데미터(A) 계산(C) 통계 새로 만들기(N) Cri+N	ध© ⊐a	H≞© ₽ {\\ \\ <b>?</b>	971(D) 57	00 800 0 0 2	도음왕(U) [] 10 1일			书内的	14 14	2
	프로격트 알기(10) Cri+0 프로격트 계장(5) Ori+S 다른 이름으로 프로젝트 개장( <u>A</u> ) 프리트드 419(4)	*									-
3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	프로젝트 월왕(() 월코서도 왕기(10) 현재 워크시도 정장(C) 다른 아름으로 현재 워크시도 저장(D) 워크시도 같아() 워크시도 같아()		e Range	1위를 누르	실시요.						
82	데이타베이스(CDBC) 철역(①),,, 그래프 열기(①),, 그 밖의 파일들(①)										
2	세선 상 인쇄(E) Ori+P 인쇄 상징(D) 용료(G)	C4	C5	C6	C7	C8	C9	C10	C11	C12	С
Minita	b 을 다용해 주셔서 감사합니다. 도움말을 !	로시려면 F	1을 누르십시	1오,				편집가성	8 ]	8:53 PM	1.

#### 2. 파일 형식을 Minitab(\*mtw; \*.mpj)을선택 하여 필요한 미니탭 파일 (가나다판매.MTW)을 불러온다

워크시트 열기					? 🛛
찾는 위치(!):	🚞 표본 데이터		• 4	⊨ 🗈 📸 -	
내 최근 문서 나당 화면 나당 화면 내 문서	C Minitab 길잡이 Student1 Student8 Student9 Student12 Student14 에 가나다판매 에 가연성 에 간 에 감자 에 감자칩 에 감지장치	<ul> <li>값 강도</li> <li>값 강수날짜</li> <li>값 강수량</li> <li>값 강철</li> <li>값 강철</li> <li>값 건강보호센터</li> <li>값 결점</li> <li>값 결점2</li> <li>값 결점</li> <li>값 결조</li> <li>값 결자</li> <li>값 경마</li> <li>값 경마</li> <li>값 계절별판매</li> <li>값 고객</li> <li>값 고객</li> <li>값 고기</li> </ul>	1 고용 1 고용상태 고장 1 고장 1 골프공 1 골프공2 1 금 2 프 1 금 2	<ul> <li>값 간군나</li> <li>값 굴절</li> <li>값 그릇</li> <li>값 금속부품</li> <li>값 급수펌프</li> <li>값 급수펌프</li> <li>값 급수펌프</li> <li>값 길이</li> <li>값 나무</li> <li>값 날짜</li> <li>값 날짜3</li> <li>값 나수성</li> </ul>	
내 네트워크 환경	파일 이를(N):			-	97(0)
	파일 형식( <u>T</u> ):	Minitab (*,mtw; *,mpj)			취소
					 도움말( <u>H</u> )
	Minitab 예제	<b>데이터 폴더에서 찾기</b> 설명( <u>D</u> ) 옵션( <u>P</u> ).	미리 보기	I( <u>B</u> ) 이 병합()	

#### <엑셀파일 열기>

#### 1. **파일 > 워크시트 열기** 선택 2. 파일 형식을 Excel(\*.xls)을 선택.



#### (2) 저 장

#### 다른 이름으로 저장하기

#### 1. 가나다판매.mtw을 파일저장.mtw로 저장하기

nl M	initab - 제	목 없음 -	다나다	₽₩.МТ₩	***]										×
	파일( <u>F</u> ) 편 <sup>:</sup>	집( <u>E</u> ) 데이	IEI( <u>A</u> ) 계	산( <u>C</u> ) 통계·	분석( <u>S</u> ) 그래:	프( <u>G</u> ) 편집	]기( <u>D</u> ) 도	구(Ⅰ) 창(⊻	⊻) 도움말(	<u>H</u> ) 보조 5	Ξ구( <u>N</u> )			그 원	×
🖻	88	( 🖻 🖷	io ci	I † I	₩ #   \>	? ₫ ] +	E 🖬 🗟 (	1 🖻 🗐	*: 41   0	C 📰 🔳	<b>账</b> ] f*		a 🔏  💓	A. 6	2
+	C1	C2-D	C3	C4	C5-T	C6	C7	C8	C9	C10	C11	C12	C13	C1	~
	인덱스	월	판매	광고 비용	광고 대행사										
1	2000	1월	210	30	알파										
2	2000	2월	205	25	알파										
3	2000	3월	202	55	알파										
4	2000	4월	245	43	알파										
5	2000	5월	237	60	알파										
6	2000	6월	290	50	알파										
7	2000	7월	299	60	알파										
8	2000	8월	345	43	알파										
9	2000	9월	326	34	알파										
10	2000	10월	355	36	알파										
11	2000	11월	359	38	알파										
12	2000	12월	371	34	알파										
13	2001	1월	368	30	오메가										
14	2001	2월	358	25	오메가										
15	2001	3월	345	36	오메가										
16	2001	4월	380	36	오메가										
17	2001	5월	391	30	오메가										
18	2001	6월	403	35	오메가										
19	2001	7월	410	45	오메가										~
<	1 1001	Q\$4	130	90	O INF JE									>	_
현재 위	비크시트: 가니	나다판매.M	ΓW												1

#### 2. 파일>다른 이름으로 현재 워크시트 저장 선택

#### 3. 파일 이름에 파일저장 입력



2.5.2 데이터

(1) 부분 집합 취하기

활성 워크시트에서 지정한 행을 새 워크시트에 복사하는 데 사용.



다음 표에서 Pulse1, Pulse2의 데이터를 다음 조건에 맞게 워크시트의 부분집합 취하기를 하여라<u>. 【조건 : Pulse2-Pulse1의 차가 15보다 큰</u> 관측값 구하기】

Pulse1	Pulse2
64	88
58	70
62	76
66	78
64	80
74	84



nl Mir	nitab - 제목	없음	- 1	[exa2-1.M	TW +++]												$\times$
I III II	ŀ일(E) 편집(E	D	нов	터( <u>A)</u> 계산(으	) 통계분석	( <u>S</u> )	그래의	프( <u>G</u> ) 편집	기( <u>D</u> ) 도-	구( <u>T</u> ) 창( <u>M</u>	() 도움말(	번) 보조 5	- 구(囚)			_ 5	×
😅 🛙	a 🔿 🗡 🖻	۵ 5	温 두	부분 집합 워크,	시트( <u>B</u> )		$\bigcirc$	8 💷 🛛 +(	3 📾 📾 🤇	D 🖻 🗐 '	<b>te Pir ( (</b>	3 📰 💷	匾 1.	뽧 훌 다	n 🔐 🐼 .		0
4	C1	- 2	÷ ج	니크시트 분할(	E)	C	25	C6	C7	C8	C9	C10	C11	C12	C13	С	1^
	pulse1	P	¥	리크시트 명합()	⊠)	_ [											
1	64		노	루사( <u>C</u> )		+											
2	58	I*	<b>*</b> 2	를 분할( <u>U</u> )													
3	62		쐼	#フI(王)		+											
4	66	-	<u>h</u> e	렬 전치( <u>A</u> )													
5	64	-	니죠	(S)													
6	74	- 3,	• =	>일( <u>0</u> ) ≃위(B)													
$\frac{1}{2}$		_ 1															
8			가 할	별 - 약세( <u>D</u> )													
9		- 4	a E	년수 지우기( <u>E</u> )		_  -											
11			五	1드(0)		•											
12			더	이터 유형 변동	경( <u>H</u> )	+											
13			L	출짜/시간에서	추출(区)	+											
14		^	훕 변	경합( <u>N</u> )													
15			ЪΕ	미터 표시()													
16		153															
17																	~
<																>	
조건에	따라 현재 워크.	시트	데이	터로 새 워크/	V트 생성												

- 2. 대화상자에서 새 워크시트이름을 지정
- 3. 포함 또는 제외에서 포함할 행 지정 선택

부분 집합 워크시트 🛛 🔀
-새 워크시트 이름
이름(M), [부분 접접 exaz=1,M1W
- 포함 또는 제외
<ul> <li>⊙ 포함할 행 지정(!)</li> <li>○ 제외(本) 해 지지(도)</li> </ul>
○ 세뇌알 행 시정(트)
- 포함할 행 지정
○ 일치하는 행( <u>B</u> ) 조건( <u>C</u> )
○ 브러시된 행( <u>B</u> )
○ 행 번호( <u>M</u> ):
· · · · · · · · · · · · · · · · · · ·
<u>도움말</u> 확인( <u>0</u> ) 취소

#### 4. 포함할 행 지정에서 일치하는 행 선택 후 조건 선택

#### 5. 조건 대화상자에서 조건 "(Pulse2-Pulse1)>15"을 입력한 후 확인

A			Ma							<b>m</b> ( 200 [ ]			214
	Pulse, MTW											-	
012	+ Cl Dedard D	C2 (	<b>:</b> :	C4	CG	CG	C7	CO ·····	C9	C10	CII	C12	С,
	1 64	00		a na she na		11.11.11.11	angle par left a			1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -	25.57.5 16		
포함	2 58	70											-
G.	3 62	76											
C	4 55	78											
	5 64	00											
포함기	6 A	1912											
a 1	inder							eren er de seren de seren er de seren e					1
CE	[부분원함 Po	(ma(22)).(	41W ••••										60
c F	+ C1	C2	C3	C4	C5	Cő	C7	Cð	C9	C10	C11	C12	
	Pulze1	Pulze2		22.11	1	1.	1111			1.1.1	1		
		88											
	1 64			-									
_	1 64 2 64	80											
도	1 64 2 64 3	80											

#### (2) 워크시트 문할

하나 이상의 "기준" 변수에 따라 활성 워크시트를 둘 이상의 새 워크시트로 분할



- 미니탭 샘플파일(C:/MINITAB17 한국어/표본데이터)에서 워크시트
- •<u>맥박.</u>MTW를 불러 성별(Sex)로 분할하여라.



- 1. 워크시트 맥박.MTW를 불러온다.
- 2. 데이터 > 워크시트의 분할 취하기 선택



## 3. 기준 변수에 Sex 선택한 후 확인. 4. 결과창

워크	시트 분할	X	<b>#</b> •	박.MTW(2	성별 = 1)							×
			+	C1	C2	C3	C4	C5	C6	C7	C8	^
IC1	맥박]	기운 면수( <u></u> );		백박1	맥박2	제자리 뛰기	흡연	성별	7I	무게	활동	
IC2	맥박2	'성별'] 📃 📈	1	64	88	1	2	1	66.00	140	2	
L3	셋상리 뛰기		2	58	70	1	2	1	72.00	145	2	
	효율	×	3	62	76	1	1	1	73.50	160	3	
IC6	위		4	66	78	1	1	1	73.00	190	1	
Č7 C8	무게 활동	□ 기준 수준의 하나로 결측값 포함(!)	1 m	박.MTW(	성별 = 2)	***			interimedu-			X
			4	C1	C2	C3	C4	C5	C6	C7	C8	^
				맥박1	맥박2	제자리 뛰기	흡연	성별	FI	무게	활동	- E
			1	96	14	0 1	2	2	61.00	140	1	2
			2	62	10	0 1	2	2	66.00	120		2
			3	78	10	4 1	1	2	68.00	130		2
			4	82	10	0 1	2	2	68.00	138		2
			5	100	11	5 1	1	2	63.00	121	:	2
1			6	68	11:	2 1	2	2	70.00	125		2
	서택		7	96	11	6 1	2	2	68.00	116		2
			8	78	11	8 1	2	2	69.00	145		2
	2		9	88	11	0 1	1	2	69.00	150		2
	도움말	확인(0) 취소	10	62	9	8 1	1	2	62.75	112		2 -
-			<	02		51		-	00110		>	

(3) 워크시트 병합

열려 있는 두 워크시트를 결합하는 데 사용. 원래의 두 워크시트에 있는 정보를 복제한 다음 결합하여 새 워크시트에 저장.



미니탭 샘플파일(C:/MINITAB17 한국어/표본데이터)에서 워크시트

조사1.MTW, 조사2.MTW를 불러 병합하라.



#### 1. 워크시트 조사1.MTW를 연 다음 워크시트 조사2.MTW를 불러온다.

<b># 3</b>	ЕЛН.МТИ	+ * * *			📰 3	а.мт⊮	/			×
÷	C1	С2-Т	C3	C4 🔼	Ŧ	C1	C2-T	C3	C4	^
	공장	코드	조사1	조사2 📃		공장	코드	조사1	조사2	
1	1	A	0.10	0.98	1	5	E	0.16	0.09	
2	2	В	0.82	0.62	2	2	В	0.94	0.54	
3	3	С	0.22	0.14	3	4	D	0.74	0.29	
4	4	D	0.81	0.81	4	3	С	0.22	0.46	
5	5	E	0.58	0.95	5	1	A	0.66	0.52	
5					c	1				$\mathbf{r}$
<	J			2.3		J			>	1.11

#### 2. 네이너 > 워크시트 병합

> MINITAD - 3D	4 W B						CENTRE NO.		
BS4(D H2(D) FF F (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	EDDIN(A) 가가(C) 동가방(A) 그러?     타기시트의 부분 결암 취하가(B)     유리시트 분왕(C)     아이지는 분왕(C)     아이지는 분왕(C)     박기(C)     문 같아(C)     같기(C)     문 같아(C)     같이 가까?     문 같아(C)     같이 가까?     문 같아(C)	17KD) 도구 (문) -C 및 (기운 누드	යා මහත මා අංක (සින්න	589(U) 1 10 10 70		0   20			
	<ul> <li>응 변수 지두기(E)</li> <li>코드(G)</li> <li>데이터 유럽 방굴(g)</li> <li>날까/시각에서 주름(S)</li> <li>책 방험(g)</li> <li>바라(D)</li> </ul>	CB	67	CB	69	610	CU	C12	
1 2 目前 双任 年 知道AIE	TE DIOIEL E ALD	 0		0	CV	cito	- CH	520 PM	

3. 병합될 워크시트 조사1.MTW, 조사2.MTW 를 선택

워크시트 병합	
병합: 조사1,MTW 병합될 워크시트( <u>W</u> ): 조사2,MTW <mark>조사2,MTW</mark>	옵션 기준 열( <u>B</u> )
	열 포함([)
출력 워크시트 미름( <u>T</u> ):	
워크시트 병합	
도움말	<u>확인(Q)</u> 취소

#### 4. 확인을 클릭하여 기본 세팅을 사용

5. 결과창

al M	📶 Minitab - 제목 없음 - [워크시트 병합 ***]												
	파일( <u>F</u> )	) 편집	( <u>E</u> ) 데	01EH( <u>A</u> )	계산(	) 통계	분석( <u>S</u> ) 그래프( <u>G</u> ) 편?	집기( <u>D</u> ) 도구( <u>T</u> ) 창( <u>)</u>	⊻) 도움말(ŀ	<u>네</u> ) 보조 또	±7( <u>N</u> )		
]											_ 8 ×		
] 🖻	🛎 🖬 🚳 👗 🛍 🛍 🗠 ⇔ 🛄   † ↓ 🖊 🔐 🚫 ? 🗊   +€ 🖬 🗟 🛈 🚬 🖥 ½ 🕮 📰 ⊠												
] <i>f</i> *		B 💑 d	6   🏏	s. 6	9								
+	C1	C2-T	C3	C4	C5	C6-T	C7	C8	C9	C10	C 🔼		
	공장:	코드:	조사1	조사2:	공장:	코드:	조사1:조사2.MTW	조사2:조사2.MTW					
1	1	A	0.10	0.98	5	E	0.16	0.09					
2	2	В	0,82	0.62	2	В	0.94	0.54					
3	3	С	0,22	0.14	4	D	0.74	0.29					
4	4	D	0.81	0.81	3	С	0.22	0.46					
5	5	E	0.58	0.95	1	A	0.66	0.52			~		
<													
Minita	ab을 시	작합니C	H. 도움말	발을 보려	면 F1 키	를 누르십	[시오,						

#### (4) 정 렬

선택한 관련 열의 값에 따라 하나 이상의 데이터 열을 정렬 오름차순 또는 내림차순으로 정렬 가능



다음의 데이터를 정렬하여라. (데이터 : 2, 3, 1, 4, 5)



- 1. 열 정렬에 C1을 입력
- 2. 데이터 > 정렬을 선택

MINITAB - X	号 银音							
10월(1) 원잡(1) 26 12 12 12 12 12 12 12 12 12 12 12 12 12	) 데이터(쇼) 계산(C) 로계학(S) 그래트( 등, 위크시트의 부분 집합 취하기(B) 등, 위크시트 분합(D) 약 위크시트 분합(D)	5) 편집기(1) <b>양 11   4</b>	E⇒CD arcen 2 <b>69</b> @ @ E	王皇島(R) 王皇島(R)		2   385     -2	-15 ala <b>62</b>	× ~   c
Minitab 을 Ol	복사(C) [ <sup>→P</sup> 월 분달(U) <sup>G</sup> 쌓기(D) <sup>G</sup> 열 전치(A)	, 리면 F1을	누르십시오.					
	<u>⊉↓ 8首(2)</u> <sup>3</sup> 12 会判(图)							
	▶ 형 삭제(D) 중, 변수 지무기(E)							
의원 범위크시트 1 ·	코드(0) 데이터 유형 변질(비) 남자/시각에서 추출(2) * ' 방랍(ቢ)							
• C1	The CHOICH MEAND	C	3 C7	C8	C9	C10	C11	C12
2	3							
3	1							
the second se								
4	1							

3. 첫 번째 기준 열에 C1을 입력

4. 정렬된 데이터 저장 위치에서 현재 워크시트 끝에 확인



5. 결과창

(5) 순 위

열의 값에 순위 점수를 지정할 수 있다.

같은 값에는 해당 값에 대한 평균 순위가 지정되고 결측치는 결측으로 남는다.



미니탭 샘플파일(C:/MINITAB16 한국어/표분데이터)에서 워크시트

시장.MTW를 불러 판매변수의 순위를 정하여라.



#### 1. 워크시트 시장.MTW를 불러온다.

nl N	linitab - J	제목 없음	- [시장.)	/TW +++]											X
	파일( <u>F</u> ) 된	편집( <u>E</u> ) 데	01EH( <u>A</u> ) 7	훼산( <u>C</u> ) 통	계분석( <u>S</u> )	그래프( <u>G</u> )	편집기( <u>D</u> ) 도	[구( <u>]</u> ) 창(	₩) 도움;	말( <u>H</u> ) 보조	도구( <u>N</u> )				a ×
] 🖻		🖻 🖻	$  \circ \circ  $	III 1	↓ ₩ ∦	0 ? 🗈	) 🕂 🖬 🗟	1 🖻 🗟	*= 🖽	E 📰 🖩	⊠ ∫*	======	⊾ @ ≫	1.0	3
÷	C1	C2	C3	C4	C5	C6	С7-Т	C8	C9	C10	C11	C12	C13	C14	^
	민덱스	분기	연도	판매	광고 비용	자본	광고 대행사								
1	1	1	1991	94	17	8	오메가								
2	2	2	1991	99	10	6	오메가								
3	3	3	1991	98	9	12	알파								
4	4	4	1991	92	22	16	알파								
5	5	1	1992	106	24	29	알파								
6	6	2	1992	116	18	32	알파								
7	7	3	1992	113	13	33	오메가								
8	8	4	1992	108	14	36	오메가								~
< 1															>
Minit	ab을 시작합	비다. 도움들	발을 보려면	F1 키를 누!	르십시오,										

#### 2. 데이터 > 순위 선택

#### 3. 순위 매길 데이터에 Sales를 입력

#### 4. 순위 저장 위치에 순위를 입력하고 확인

📶 Minitab - 제목 없음				
파일(E) 편집(E) 데이터(A) 계산(C) 통계분석(S) 그래프(G) 편집기(D)	도구( <u>T</u> ) 창( <u>W</u> ) 도움말( <u>H</u> ) 보조 도구( <u>N</u> )			
☞ 묘 종 및 1명, 부분 집합 워크시트(8) 응 이 약 1위 · · · · · · · · · · · · · · · · · ·		A 電電品 新 ダ 炙 ク		
O( 복사(C) → Minitab를 시작합니 <sup>[+무</sup> 열 분발(U) 생기(I) →			순위 [C1 인텍스	
· 협 열 컨치(A)			C2 분기 C3 면도	순위 데이터( <u>B</u> ): ['판매'
2+ 8월(2) 31 <sub>2</sub> 순위(臣)			C5 광고 비용 C6 자보	순위 저장 위치( <u>S</u> ): 순위
▶ <sup>9</sup> 행 삭제(①) - Q₂ 변수 지우기( <u>E</u> )				
▲ 코드(Q) , 躍 시장.MTW ···· 데이터 유형 변경(出) ,				
+ C1 날짜/시간에서 추출(X) → C5 C6 C7	-T C8 C9 C10 (	C11 C12 C13 C14		
1 1 A* 방합(N) 17 8 오메가	181			
2 2 1 데이터 표시() 10 6 오메가			선택	
3 3 3 1991 96 9 12 알파			COD	화아(이) 치스 1
4 4 4 1351 32 22 10 을파 열 값에 순위를 부며				

il M	linitab - J	테목 없음	- [시장.)	/TW +++]										X
	파일( <u>F</u> ) 핀	변집( <u>E</u> ) 데	01E1( <u>A</u> ) 7	훼산( <u>C</u> ) 통	계분석( <u>S</u> )	그래프( <u>G</u> )	편집기( <u>D</u> ) 도	[구( <u>T</u> ) 창(	₩) 도움물	발( <u>H</u> ) 보조	도구( <u>N</u> )			X
] 🖻		% 🖻 🛢	юœ	<u>n</u> (†	↓ ₩ ∦	0 ? 🗉	1 🗄 🖥	1 🛛	1日日	8 📰 🖩	医  f*		₩ 6   %	\$ .5
Ŧ	C1	C2	C3	C4	C5	C6	С7-Т	C8	C9	C10	C11	C12	C13	^
	민덱스	분기	연도	판매	광고 비용	자본	광고 대행사	순위						
1	1	1	1991	94	17	8	오메가	2						
2	2	2	1991	99	10	6	오메가	4						
3	3	3	1991	98	9	12	알파	3						
4	4	4	1991	92	22	16	알파	1						
5	5	1	1992	106	24	29	알파	5						
6	6	2	1992	116	18	32	알파	8						
7	7	3	1992	113	13	33	오메가	7						
8	8	4	1992	108	14	36	오메가	6						Y
<	]												>	}
현재·	워크시트: 시	장,MT₩												

#### (6) 코 드

#### 코드를 사용하면 값 또는 값 세트를 새 값으로 변경할 수 있다.



다음의 시험점수를 91~100점은 4로, 81~90점은 3, 71~80은 2, 61~70은 1, 60점 이하는 0으로 코드화하라. <u>(점수 데이터 : 88, 65, 94, 72, 66, 51)</u>

#### (미니펍 이용)

#### 1. 코드화할 데이터열에 '점수'라는 변수, 대상열에 '평점'이라는 변수를 입력

HT DA	NED BER	E) DIDIEIO	a) MANCH	带24年((3)	口改革(6)	편함기(D) :	⊊⊋(D &0	0 SAM	0				i ani a
(a) (a)		Rp 10	<b>(79</b>	7 4 44	ROT	0   -C V	h 16 🔿 📰	) 🐻 🐄 🗠		<b>-   385   -</b>	2 - <b>2</b> ale <b>A</b>	130	12
	01 初中	C2 명건	C0	04	05	CG	07	Cð	09	C10	Q11	012	1
1	00												
2	6/5												
3	94												
4	72												
15	ÓÔ												
0	51												
7													
28													
59													
10													1.1
11													
12													1.3
13													1.3
14													
16													
16													
17													1

#### 2. 데이터 > 코드 > 숫자를 숫자 선택

- 3. 대화상자의 코드화할 데이터 열에 '점수', 대상 열에 '평점'을 선택
- 4. 첫번째 원래값 상자에 90:100을 입력하고 첫 번째 새 값 상자에 4를 입력.

두 번째 원래값 상자에 80:89을 입력하고 두번째 새 값 상자에 3을 입력.

세번째 원래값 상자에 70:79을 입력하고 새 값 상자에 2를 입력.

네 번재 원래값 상자 에 60:69을 입력하고 새 값 상자에 1을 입력.

마지막 원래값 상자에 0:59을 입력하고 새 값 상자에 0을 입력. 그리고 확인.

📶 Min	iitab - 제목 입	없음 - [EXA2-6.MTW ***]					
🛗 🎞	H일(Ē) 편집(Ē)	) 데이터( <u>A</u> ) 계산( <u>C</u> ) 통계분석( <u>S</u> )	_ 그래프(G) 편집기(D) 도구(T) 창(냎) 도	도움말( <u>H</u> ) 보조 도구( <u>N</u> )	_8×		
📽 🕻	a 😂 🗴 🖻	a 堤 부분 집합 워크시트(B)	🚫 🕈 🗊 🕂 🐻 🔂 🖄 👘 🕅	1 C 🔛 🖩 🚿 🛛 🗚	-2-2 🕹 🔒		
+	C1 전수	- 🚰 워크시트 분할(만) - 🛂 워크시트 병합( <u>M</u> )	C5 C6 C7 C8 C	C9 C10 C11	C12		
1	88	복사( <u>C</u> )	2+2 2+7 숫자를 텍스트로(U)				
2	65 94	_ <sup>++</sup> 열 분할( <u>U</u> ) 쌓기(T) ▶	2+d 숫자를 날짜/시간으로( <u>M</u> )				
4	72	집 열 전치( <u>A</u> )	T+T 텍스트를 텍스트로(X) T+T 텍스트를 숫자로(E)				
5 6	51	★ 정렬( <u>S</u> )	Cosc T+d 텍스트를 날자/시간으로(!)			고드화 - 숫자를 숫자로 고드화	2 데이터 열( <u>C</u> ):
7		<sup>-1</sup> 2 21(近) - た が 小刊(D)	Const d+d 날짜/시간을 날짜/시간으로(D)			·점수· 코드화된	를 데이터 저장 열( <u>S</u> ):
9		- ♀ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	6+2 일자/시간을 텍스트로(T)			'평점' 원본 값(	(예:1:412)(B): 새 값(N):
10 11		코드(0)	👰 변환 표 사용( <u>S</u> )			90:100 80:89	3
12		데이터 유형 변경( <u>H</u> ) 날짜/시간에서 추출(X)				70:79	2
14		A <sup>+</sup> <sub>B</sub> 병합( <u>N</u> )				0:59	[] [0
15 16		IDIEI 표시()				선택	
17					×		
솟자값	을 새로운 숫자값	으로 재코딩				도움말	확인(Q) 취소

5. 결과창

🚬 МП	NITAB - XI	지 없음 - 11	2XI_2X	.MTW)									
Ш	NY (E) 편집(	E) CLOIER(Q	) 개삼( <u>c</u> )	불계학( <u>S</u> )	그정표(6)	편질기( <u>D</u> ) 5	로쿠(I) 촬영	() 도움말()	p				@ x
i 📽 🛛	3 6 %	Ba 🙉 🗠	12 <b>11</b>	114	R   🛇 📍	Ø   -C 🖲	ð 🖏 🛈 💈	) 🗊 💼 🖫		I 🕱 🛛 -	2-2 de <i>R</i>	12 de	0
1	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	^
	접수	평전				0.000.000							12
1	88	3											L_8
2	65	1											
3	94	4											-61
4	/2	2											-8
6	68	1											1.8
6	51	Ų											
(													
8													-8
9													
10													
10													
12													-81
10											1		-81
15													-81
18													
17			******										~
30													>
원제 뭐	크시트: 숫자.	£7kMT₩							in n'n			2:25 PM	

#### 예 제2-7

앞의 예제의 데이터(시험점수)를 90~100점은 A로, 80~89점은 B, 70~79는 C, 60~69는 D, 60점 미만은 F로 코드화하라.

1. 코드화할 데이터열에 점수라는 변수, 대상열에 학점이라는 변수를 입력 워크시트끝에 선택

📶 Mir	nitab - 제목 없	(음 - [EX	A2-7.MT	W ***]										
] 📰 🏾	다일(E) 편집( <u>E</u> )	HIOIEI(A)	) 계산( <u>C</u> )	통계분석( <u>(</u>	ಖ್	1래프( <u>G</u> ) 편	집기( <u>D</u> ) !	도구( <u>I</u> ) 킹	발( <u>₩</u> )	도움말	( <u>H</u> ) 보조	도구( <u>N</u> )		5 >
🚅 🛛	<b>.</b> 😂 🕺 🖻	🖫 부분 김	집합 워크시	트( <u>B</u> )	6	9 🔋 🗊 🛛	+C 🖬 🗟	1 🖸 🖻 🛙	<b>7</b>	时(	I 📰 🖩	f≈		a <mark>l</mark> a
+	C1 점수 :	👫 워크시 물 워크시	시트 분할( <u>P</u> ) 시트 병합( <u>M</u>	 )	5 2→2	C6 숫자를 숫자	C7 로( <u>N</u> )	C8	Γ ¢	29	C10	C11	C12	
1 2 3 4 5 6	88 65 94 72 66 51	복사(( 달 분 1 쌓기() 달 분 1 쌓기() 달 전 2 달 전 2 () 달 전 2 () () () () () () () () () ()	<u>C</u> ) 탈( <u>U</u> ) I) 치( <u>A</u> ) S) R)		<ul> <li>CODE</li> <li>2→T</li> <li>CODE</li> <li>2→d</li> <li>CODE</li> <li>T→T</li> <li>CODE</li> <li>T→2</li> <li>CODE</li> <li>T→d</li> <li>CODE</li> <li>CODE</li> </ul>	· 숫자를 텍스 · 숫자를 날찌 · 텍스트를 텍 · 텍스트를 숏 · 텍스트를 늘	:트로(U) -/시간으로( 스트로(X). ·자로(E) ·짜/시간으릐	<u>M</u> )  ≩()						
8 9 10		- ■♪ 행 삭기 	제( <u>D</u> ) 지우기( <u>E</u> ) <u>Q</u> )		d→d CODE d→2 CODE d→T	· 날짜/시간을 · 날짜/시간을 · 날짜/시간을 변환 표 사용	* 글~//지원 * 숫자로( <u>A</u> ) * 텍스트로( 용( <u>S</u> )	( <u>)</u>  _)						
12 13 14		데이터 날짜/. ^: 병합([	1 유형 변경 시간에서 추 <u>N</u> )	( <u>H</u> ) ·출(⊻)	•									-
15 16 17 18			1 표시()											-
<	1 i		i	i		i	İ	İ		i				>
숫자 값	을 텍스트 문자열	로 재코딩												Ξ.

#### 2.5.3 계 산

(1) 계산기

#### 산술 연산, 비교 연산, 논리 연산, 함수 계산 및 열 연산 수행



미니탭 샘플파일(C:/MINITAB16 한국어/표본데이터)에서 <u>맥박.MTW를</u> 불러 변수 맥박1과 맥박2의 차를 구하여라.



#### 1. 워크시트 맥박.MTW를 불러온다.

📶 Mi	nitab - 제	목 없음 -	[EXA2-2(型	박).мтw	***]									
I II I	다일(E) 편집	집( <u>E</u> ) 데이	I터( <u>A</u> ) 계산( <u>C</u>	2) 통계분석	박( <u>S</u> ) 그래.	프( <u>G</u> ) 편집	]기( <u>D</u> ) 도	구(王) 창()	⊻) 도움밀	( <u>H</u> ) 보조	도구( <u>N</u> )			_ & ×
l 😅 I		6 🖻 💼	S CA IE	1 1 4		😵 💷 🛛 +	a 📾 📼 🕯	🗊 🖻 🗊	*a Et   (		<b>R</b>			
		54 Mat	a a			• []								
J /*														
+	C1 	C2 01012		<u> C4</u> 후여	C5 서명	26	- 단7	- C8 황도	C9	C10	CII	C12	C13	<b>C</b>
1	64	2	1	2	1	66.00	140	20						
2	58	70	1	2	1	72.00	145	2						
3	62	76	1	1	1	73.50	160	3						
4	66	78	1	1	1	73.00	190	1						
5	64	80	1	2	1	69.00	155	2						
6	74	84	1	2	1	73.00	165	1						
7	84	84	1	2	1	72.00	150	3						
8	68	72	1	2	1	74.00	190	2						
9	62	75	1	2	1	72.00	195	2						
10	76	118	1	2	1	71.00	138	2						
11	90	94	1	1	1	74.00	160	1						
12	80	96	1	2	1	72.00	155	2						
13	92	84	1	1	1	70.00	153	3						
14	68	76	1	2	1	67.00	145	2						
15	60	76	1	2	1	71.00	170	3						
16	62	58	1	2	1	72.00	175	3						
17	66	82	1	1	1	69.00	175	2						
18	70	72	1	1	1	/3.00	170	3						
19	68	76	1	1	!	/4.00	180	2						
20	72	80	1	2	1	66.00	135	3						~
<	200	106	1	2	11	21 1111	1.20	21						>
현재 워	크시트: EX/	42-2(맥박).	MTW											

#### 2. 계산 > 계산기 선택

nl Mi	nitab - 제	목 없음 -	[EXA	2-2(믿	박박).MTW	***]									
Ī	다일(E) 편집	및( <u>E</u> ) 데이	IEI( <u>A</u> )	계산(	<u>C)</u> 통계분4	획( <u>S</u> ) 그래프	( <u>G</u> ) 편집	1기( <u>D</u> ) 도	구(王) 창()	逊) 도움밀	[( <u>H</u> ) 보조	도구( <u>N</u> )			_B×
🗃 I	8 4 X	B 🔒	60	<u>표</u> 계	산기( <u>L</u> )		•	6 🖬 🖬 0	1 🛛 🗐	*11日(		屬			
f <sub>x</sub>		£ 1%	<u>d</u> (1	열	통계량( <u>C</u> ),,										
		C2	~~   C	➡ 행	통계량( <u>0</u> ),,		16	67	68	<u> </u>	C10	C11	C12	C12	
Ť	맥박1	맥박2	제자리	x=0 s=1 ⊞	준화( <u>S</u> )		91 	무게	활동		010	CII	012	CIU	
1	64	88		ΠH	턴있는 데이	터 만들기(P)	▶ 66.00	140	2						
2	58	70		마		나들기(H)	72.00	145	2						
3	62	76		о 100 ті			73.50	160	3						
4	66	78		811 AI	시 면수 만들	ИQ	73.00	190	1						
5	64	80		21	준값 설정(B	)	69.00	155	2						
6	74	84		28	더 데이터(B	) }	73.00	165	1						
7	84	84			ㅋ 니 ㅋ (0)	/	72.00	150	3						
8	68	72		왁	'됼 문포( <u>U</u> )		74.00	190	2						
9	62	75		했	렬(M)		▶ 72.00	195	2						
10	76	118					71.00	138	2						
11	90	94		1	1	1	74.00	160	1						
12	80	96		1	2	1	72.00	155	2						
13	92	84		1	1	1	70.00	153	3						
14	68	76		1	2	1	67.00	145	2						
15	60	76		1	2	1	71.00	170	3						
16	62	58		1	2	1	72.00	175	3						
17	66	82		1	1	1	69,00	175	2						
18	70	72		1	1	1	73.00	170	3						
19	68	76		1	1	1	74.00	180	2						
20	72	80		1	2	1	66.00	135	3						
21	70	106		1	2	1	71.00	170	2						×
	·사고 110	÷เณ อเฮด		HLAL											
계산기	압수들 사용	아버 일런의	4 수석 기	위신"											

3. 변수에 결과 저장에 맥박차를 입력

#### 4. 식 상자에 맥박1 - 맥박2를 입력



#### 5. 결과창

📶 Mi	nitab - 제	목 없음 -	[EXA2-2(맥	박).MTW	***]									
] 📰 I	다일(E) 편집	되( <u>E</u> ) 데이	IEI( <u>A</u> ) 계산( <u>C</u>	) 통계분석	밖( <u>S</u> ) 그래	프( <u>G</u> ) 편집	기( <u>D</u> ) 도-	구(I) 창()	ለ) 도움말(	<u>(H</u> ) 보조 !	도구( <u>N</u> )			- 8 ×
		: •• •	ю си 🖪	118		🤋 💼 🛛 +	î 🖬 🗟 (	D 🖻 🗐	• 13 1	. 📰 📖	医			
] <b>-</b>		24 Me			O	• =-  ]								
j×														
+	C1 	C2 매비?	C3 제파리 역기	C4 흐며	С5 мня	C6 ƏL		(8) 왕도	CY MBL÷L	C10	C11	C12	C13	<u> </u>
1	64 64	88	1	2	62	-1	1/0	20	-24					
2	58	70	1	2	1	72.00	145	2	-12					
3	62	76	1	1	1	73.50	140	3	-14					
4	66	78	1	1	1	73.00	190	1	-12					
5	64	80	1	2	1	69.00	155	2	-16					
6	74	84	1	2	1	73.00	165	1	-10					
7	84	84	1	2	1	72.00	150	3	0					
8	68	72	1	2	1	74.00	190	2	-4					
9	62	75	1	2	1	72.00	195	2	-13					
10	76	118	1	2	1	71.00	138	2	-42					
11	90	94	1	1	1	74.00	160	1	-4					
12	80	96	1	2	1	72.00	155	2	-16					
13	92	84	1	1	1	70.00	153	3	8					
14	68	76	1	2	1	67.00	145	2	-8					
15	60	76	1	2	1	71.00	170	3	-16					
16	62	58	1	2	1	/2.00	175	3	4					
17	55	82	1	1	1	59,00	175	2	-16					
18	/U	72	1	1	1	73,00	1.00	3	-2					
19	00 70	75	1		1	74.00	100	2	-8					~
	12	00		Z		00.00	1351	3	-0					>
Minitat	을 시작합니	다. 도움말	을 보려면 F1 키	를 누르십시	오.									

#### (2) 패턴이 있는 데이터 만들기

![](_page_36_Picture_1.jpeg)

![](_page_36_Picture_2.jpeg)

#### 1, 2, 3, …, 100의 숫자가 포함된 ID라는 열을 만들어라.

![](_page_36_Picture_4.jpeg)

#### 1. 계산 > 패턴이 있는 데이터 만들기 > 등간격 숫자 집합을 선택

	e Rosa I Mar	201 W.S	1000 34	and the	17020 N.V	0.02	Netwo				
149 149		2007012 200702 200702 200702 200702	LL EDL EDL SL			n o s	9 <b>1</b> 0 10	12:00		电晶彩	2.60
	4	104 100 104 102 209 20 108 20 108 20 108 20 108 20	0 59716 98710 98710 98710 98710 98710	1	1 804 7 882 9 448 7 829 1 829 1 829	64 88420 9 676 255 8430	- 30 - 2 500 (S 2 5 50 (S)	_			
a su 1) Albani Mira -			~ ~	~	14		<i></i>	14	6.00	<i>611</i>	C15
1 C1 C	<	~		1.4			C.	-04	0.00	c11	1.12

# 패턴 있는 데이터 저장 위치에 ID를 입력 시작 값에 1을 입력하고 끝 값에 100을 입력

동간격 숫자 집합	MAQABBBBBBBBBBBBB	aa ah iyo yo to yo	
01	패턴 있는 데이터 지	H장 위치( <u>S</u> ):	ID
	시작 않(E):	1	
	≅ 2/(∏):	100	-
	중분(I):	1	-
	21.211.19(/10		
	< w er≡(⊻)	D	
	전체 수업 나열(比)	1	対
선역			
도움알		확인( <u>Q</u> )	취소

#### 4. 결과창

≥м	NITAB - XII	루 없음 -	[위크시트	[ ••• ]									
日日	1월(E) 편집(B	D CHOIEN	(2) 为公(C)	暴冽射( <u>S</u> )	( <u>∂</u> )≞6C	편집기(0) !	도구(I) 참(	<u> 번)</u> 도움말()	Ø				9 ×
<b>i</b>	2 3 1	no 📫 🕞	n na 🔽	1.1.4	R 0 8	1 C .	a 🙃 🛈 🛽	) 🗵 🍖 🗄			i -li de de	10 1.	0
+	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	^
	ID												
1	1												
2	2												
3	3												
4	4												
5	5				1								
6	6												
7	7				1								
8	8												
9	9												
10	10												
11	11												
12	12												
13	13												
14	14												
15	15												
16	16												
17	17												× *
ALTH OF		10.1										TUTL ANA	<u> </u>
1200 19										11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1001.000	1

![](_page_39_Picture_0.jpeg)

![](_page_39_Picture_1.jpeg)

#### <u>PSI라는 열에 10, 10, 20, 20, 50, 50으로 구성된 숫자 세트 세 개를 채워라</u>.

![](_page_39_Figure_3.jpeg)

#### 6. 결과창

≥ MI	NITAB - XII	8 W B +	DIALERI	i ••••]									
lill u	NB(E) EBG(	D NON	(쇼) 개산(도)	흥기학(E)	18年(9)	6631(D)	#4CD 80	的 主要服用	)				(0) XI
a# 6		Ba in 1	•• •• [ <b>m</b> ]	1.1.44	ROT	0 31	n 🕁 🖸 🖸	1 🗷 🐄 🖄	C D		112 als A	1 1	0
+	C1	C2	C3	C4	C6	C8	C7	C8	C0	C10	C11	C12	- 8
1	10							- 444 - 7 - 144 - 14			1		ΞĒ.
2	10												18
3	20												t F
4	20												TR.
5	50												
0	50												
1	10												-8
0	20					*****							- 任
10	20												
11	50												TK
12	50												T.
13	10												
14	10												
15	20												14
16	20												
17	00												2
언제 뒤		1 10										HA STUT	

#### (3) 랜덤 데이터

#### <열에서 표본추출>

하나 이상의 열에서 동일한 행들을 랜덤하게 표본으로 추출

복원 또는 비복원으로 표본을 추출 가능

![](_page_41_Picture_4.jpeg)

다음과 같은 데이터 행 9개로부터 관측치가 5개인 랜덤 표본을 선택하여라.

ID	Weight
1	45
2	65
3	54
4	67
5	65
6	88
7	58
8	41
9	50

(미니펍 이용

워크시트에 처음 두 개의 데이터 열을 입력하고 열 이름을 ID와 Weight로 지정
 계산 > 랜덤 데이터 > 열에서 표본 추출을 선택

▶ MINITAB - 제목 없음	열에서 표본 추출( <u>C</u> )						_ 7 🗙
파일(E) 편집(E) 데이터(A) 계산(C) 통계학(S) 그래프(G) 편?	카이-제곱(Q) (H)						
😂 🔚 🎒 🐰 🗈 💼 🖉 🖃 계산기(L)	정규 분포( <u>N</u> ) 🗊 년		<b>K</b>		10 0. 0	2	
[ 문 비 서	다변량 정규 분포	, _ ,					
	F(E)						
<sup>又=0</sup> 표준화( <u>S</u> )	t( <u>T</u> )						-
	균등 분포( <u>U</u> )						
Minitab 을 이용해 주셔서 망사데이터 만들기( <u>H</u> )	Bernoulli 분포						
양왕 지시 변수 만들기(!)	이항 분포( <u>B</u> )						
기저값 설정( <u>B</u> )	초기하 분포( <u>H</u> )						
랜덤 데이터( <u>B</u> ) ▶	미산형 분포( <u>D</u> )						
확률 분포( <u>D</u> ) ▶	정수 분포([)						-
· · · · · · · · · · · · · · · · · · ·	Poisson 분포( <u>P</u> )						
	베타 분포( <u>A</u> )						
	Cauchu 볼포(V)						× •
	Cadeny E + (1/						
	지수 분포(조)						
▲ 위크시트 1 ***	지수 분포( <u>X</u> ) 감마 분포( <u>G</u> )						
※ 第三시트 1 +++ + C1 C2 C3 C4 C5	지수 분포(义) 감마 분포(분) Lapit 모드(분) 용데 고드(고)는 문	C9	C10	C11	C12	C13	C14
■ 開発型AIE 1 *** + C1 C2 C3 C4 C5 ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	지수 분포( <u>)</u> 감마 분포( <u>G</u> ) Laplace 분포( <u>L</u> ) 최대극단값분포( <u>E</u> ) 리지극단값분포( <u>E</u> )	C9	C10	C11	C12	C13	C14
■ 開設した ・ C1 C2 C3 C4 C5 1 2 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	지수 분포( <u>)</u> 감마 분포( <u>G</u> ) Laplace 분포( <u>L</u> ) 최대극단값분포( <u>E</u> ) 로지스틱 분포( <u>O</u> ) 리 고리스틱 분포( <u>S</u> )	C9	C10	C11	C12	C13	C14
第三从트 1 ****         +       C1       C2       C3       C4       C5         1               2                3	지수 분포(() 감마 분포(G) Laplace 분포(L) 최대극단값분포(E) 로지스틱 분포(Q) 로그 로지스틱 분포(S) 로그 로지스틱 분포(S)	C9	C10	C11	C12	C13	C14
Image: N=JAE 1 +++         +       C1       C2       C3       C4       C5         1       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       - <td< td=""><td>지수 분포(X) 감마 분포(G) Laplace 분포(L) 최대극단값분포(E) 로지스틱 분포(O) 로그 로지스틱 분포(S) 로그 정규분포(<u>m</u>) 최소극단값분포(V)</td><td>C9</td><td>C10</td><td>C11</td><td>C12</td><td>C13</td><td>C14</td></td<>	지수 분포(X) 감마 분포(G) Laplace 분포(L) 최대극단값분포(E) 로지스틱 분포(O) 로그 로지스틱 분포(S) 로그 정규분포( <u>m</u> ) 최소극단값분포(V)	C9	C10	C11	C12	C13	C14
*       C1       C2       C3       C4       C5         1	지수 분포(义) 감마 분포( <u>G</u> ) Laplace 분포( <u>L</u> ) 최대극단값분포( <u>E</u> ) 로지스틱 분포( <u>O</u> ) 로그 로지스틱 분포( <u>S</u> ) 로그 정규분포( <u>m</u> ) 최소극단값분포( <u>V</u> ) 삼각형 분포( <u>B</u> )	C9	C10	C11	C12	C13	
HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING       HIMING	지수 분포(ێ) 감마 분포(Ġ) Laplace 분포(Ĺ) 최대극단값분포(E) 로지스틱 분포(O) 로그 로지스틱 분포(S) 로그 정규분포(m) 최소극단값분포(Y) 삼각형 분포(B) Weibull 분포(W)	C9	C10	C11	C12	C13	
Image: State 1 +++         +       C1       C2       C3       C4       C5         1	지수 분포( <u>)</u> 감마 분포( <u>6</u> ) Laplace 분포( <u>L</u> ) 최대극단값분포( <u>E</u> ) 로고 로지스틱 분포( <u>0</u> ) 로그 로지스틱 분포( <u>0</u> ) 로그 정규분포( <u>m</u> ) 최소극단값분포( <u>V</u> ) 삼각형 분포( <u>B</u> ) Weibull 분포( <u>W</u> )	C9	C10	C11	C12	C13	
Image: Non-State (Non-State (Non-S	지수 분포( <u>)</u> 감마 분포( <u>6</u> ) Laplace 분포( <u>L</u> ) 최대극단값분포( <u>E</u> ) 로지스틱 분포( <u>0</u> ) 로그 로지스틱 분포( <u>0</u> ) 로그 정규분포( <u>m</u> ) 최소극단값분포( <u>V</u> ) 삼각형 분포( <u>B</u> ) Weibull 분포( <u>W</u> )	C9	C10	C11	C12	C13	
HIM       C1       C2       C3       C4       C5         1       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -	지수 분포( <u>)</u> 감마 분포( <u>G</u> ) Laplace 분포( <u>L</u> ) 최대극단값분포( <u>E</u> ) 로지스틱 분포( <u>S</u> ) 로그 로지스틱 분포( <u>S</u> ) 로그 정규분포( <u>m</u> ) 최소극단값분포( <u>V</u> ) 삼각형 분포( <u>B</u> ) Weibull 분포( <u>W</u> )	C9	C10	C11	C12	C13	
HOME 1 ***         +       C1       C2       C3       C4       C5         1       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -	지수 분포( <u>)</u> 감마 분포( <u>G</u> ) Laplace 분포( <u>L</u> ) 최대극단값분포( <u>E</u> ) 로지스틱 분포( <u>O</u> ) 로그 로지스틱 분포( <u>S</u> ) 로그 정규분포( <u>M</u> ) 청소극단값분포( <u>V</u> ) 삼각형 분포( <u>B</u> ) Weibull 분포( <u>W</u> )	C9	C10	C11	C12	C13	
NOME       Nome         +       C1       C2       C3       C4       C5         1               2                                                                                                                <	지수 분포( <u>)</u> , 감마 분포( <u>G</u> ), Laplace 분포( <u>L</u> ), 최대극단값분포( <u>E</u> ), 로지스틱 분포( <u>O</u> ), 로그 로지스틱 분포( <u>S</u> ), 로그 정규분포( <u>M</u> ), 삼각형 분포( <u>B</u> ), Weibull 분포( <u>W</u> ),	C9	C10	C11	C12	C13	
ЭЗИЕ 1 ***         +       C1       C2       C3       C4       C5         1               2                3	지수 분포( <u>)</u> 감마 분포( <u>G</u> ) Laplace 분포( <u>L</u> ) 최대극단값분포( <u>E</u> ) 로그 로지스틱 분포( <u>S</u> ) 로그 로지스틱 분포( <u>S</u> ) 로그 정규분포( <u>m</u> ) 최소극단값분포( <u>Y</u> ) 삼각형 분포( <u>B</u> ) Weibull 분포( <u>W</u> )	C9	C10	C11	C12	C13	

3. 표본 추출할 행에 5를 입력하고 행을 다음 열에서 ID, Weight를 입력
4. 표본 저장 위치에 IDSample, WeightSample을 입력한 다음 확인을 클릭

	en en oriente Poste instante	(2) 利日(C) (2) ついいの	토지약(5) 그레프(5)	<b>習習7(0)</b>	- 星泉(1) 御	24/2 DE 10 10	ALC: NOT THE REPORT OF				
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ID	Weight	<b>IDSample</b>	WeightSample								
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2	- 66	9	60								
3	54	3	54								
4	67	8	41								
5	65	1	45								<b>- 8</b>
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5. 결과창

![](_page_44_Picture_0.jpeg)

![](_page_44_Picture_1.jpeg)

표준정규분포(평균: 0, 표준편차: 1)를 따르는 랜덤데이터를 100개 생성 하여 라. 그리고 산점도 그래프도 그려보자

![](_page_44_Picture_3.jpeg)

1. 데이터 > 랜덤데이터 > 정규분포를 선택

2. 생성 100(데이터 행)입력

3. 평균 0, 표준편차 1 입력

] 생성(⊡) [10	데이터 쎂	×
저장 옅( <u>S</u> ):		~
표준 편차( <u>T</u> ):	0.0	
	【 생설( <u>G</u> ) [10 저장 열( <u>S</u> ): [C1 [ 평균( <u>M</u> ): 표준 편차( <u>T</u> ):	실설(G) 10 데이터 햄 저장 옅(S): C1 평균(M): 0.0 표준 편차(I): 1.0

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![](_page_46_Figure_2.jpeg)

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