

Ezy OMR



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1. Overview

EZY OMR is optical mark recognition software that is very easy, accuracy, fast and flexible. This is total solution for university, college, school, test center, research company, etc.



1.1. **System Requirement** Support OS – Win XP, Vista, 7, 2003 Server, 2008 Server.

1.2. Steps of EZY OMR

- Create answer sheet form. •
- Create OMR Template. •
- Create test profile. •
- Print answer sheet form. •
- Scan answer sheet. •
- Check student ID with database. •
- Create answer key file. •
- Score and analyze. •
- Export data. •

Create answer sheet form Use default form

Subject	-	Testee ID	Logo +	Name	Please fill in the entire circle the Erase mark completely to make	hat corresponded to your answ or change	er by pencil 28 up,
Subject D	Logo & Name		Stubject	Sign	A B C D E 1 () () () () () 2 () () () () () 3 () () () () () 4 () () () () () 5 () () () () () 6 () () () () ()	A B C D E 21 O O O O O 22 O O O O O 23 O O O O O 24 O O O O O 24 O O O O O 24 O O O O O 25 O O O O O 26 O O O O O 27 O O O O O	A B C 41 0 0 0 42 0 0 0 43 0 0 0 44 0 0 0 45 0 0 0 46 0 0 0 47 0 0 0
B In the entre drive that correspon A B C D C → 0 C → 0	A B C D A B C O A B C O A B C O A B C O A B C O A B C O A B C O C O O S O	a B C D A B C D B1 C D D B2 C C D B2 C C D B4 C C C B4 C C D B4 C C C B4			$\begin{array}{c} 6 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	28 • </td <td></td>	
15 0 0 0 0 0 A B C D 16 0 0 0 0	45 0 0 0 75 0 0 0 A B C D A B C D 46 0 0 0 0 76 0 0 0		Please fill in the entire circle Frase mark completely to a	le that corresponded to your an	nswer by pencil 2B up,		T
17 ○ ○ ○ 18 ○ ○ ○ 20 ○ ○ ○ 21 ○ ○ ○ 22 ○ ○ ○ 22 ○ ○ ○ 24 ○ ○ ○ 25 ○ ○ ○ 26 ○ ○ ○ 27 ○ ○ ○ 28 ○ ○ ○ 29 ○ ○ ○ 20 ○ ○ ○ 27 ○ ○ ○ 28 ○ ○ ○ 29 ○ ○ ○ 20 ○ ○ ○ 20 ○ ○ ○ 20 ○ ○ ○ 20 ○ ○ ○ 20 ○ ○ ○ 20 ○ ○ ○ 20 ○ ○ ○ <	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	

2.2. <u>Create your own form</u>

You can create your own answer sheet form by Word, Excel, Photoshop, Illustrator, Visio, etc. But Visio is recommended.

The rule is each circle must be straight both left and bottom tag. After finished, print as PDF file.



2.3. Print out answer sheet form

- Open answer sheet file (PDF File).
- Use paper 80 grams.
- Print out by normal laser printer.

2.4. Writing equipment

- Both pen and pencil which is dark color.
- Pencil 2B is recommended.

3. OMR Template

OMR Template is answer sheet template for OMR process. This template will be define about total questions in the test, total choice in each question, each digit of student ID, subject ID and choice match with which bubble in answer sheet image. If you want to use default template, please skip this step. If you want to create new template, please do as follow.

3.1. Create OMR Template

1. Double clicks at icon 💒 to open EZY OMR.

Exit		Laft: 0 With: 0 Fiel	
Date Dieviev	Scan	Top: 0 Height: 0 Pode	
	Spind Inte Capond		
Loge 🚺 Ercora			
ie name	Status		
		Inequ proview:	
			Zoom :
6 (%) i			

2. Go to File \rightarrow OMR template editor. The OMR Template Information will be display as picture below:

0 0	MR template information :	
Selec	t one of the options below : New OMR template OMR template file :	2
) H	1
	Document type :	
	Туре 2	
	Information	
	Digits of student ID : 13	3
	Digits of subject ID : 2	
	Digits of test series : 2	
	Number of questions :	3
	Test Setting	

- 3. Select New OMR Template
- 4. Digits of Student ID the digits of student ID such as 3502613213=10 digits.
- 5. Digits of Subject ID the digits of subject ID such as 001 = 3 digits.
- 6. Digits of Test Series the digits of test series such as 1 series, 2 series.
- Number of Questions all questions in the test such as 100 questions, 120 questions, 140 questions.

8. Click at Test Setting, the dialog as below will be show.



- 🐮 Test Setti 🙀 Answer sheet setting create : 📓 😒 Create manual answer sheet Create automatic answer sheet Add set of answer 🕚 Add question no. Data view : Question no. Set of answer Choice ۵ 👪 Classified All 😓 Create automatic Di Options Ø Define information: Update mark point automatic. 120 😜 Number of questions : Set of answer/question : 1 😜 Choice/set of answer.: 6 😂 V OK 🔀 Cancel 💙 OK 🔀 Cancel
- 9. Click at Create automatic answer sheet

- Number of Questions total questions in the test.
- Set Of Answer/ Question answer set for each question <u>Ex. 1 set of answer</u>

Q – What is part of house?

A – 1. Roof 2. Leg 3. Hand 4. Paper \rightarrow Set of answer = 1

```
Ex. 2 sets of answerQ - Match the correct color with fruit?Answer 1 - banana, appleAnswer 2 - yellow, red\rightarrow Set of answer = 2
```

• Choice / Set Of Answer is number of choices for each set of answer <u>Ex.</u>

1. Roof 2. Leg 3. Hand 4. Paper \rightarrow Choice / Set of Answer = 4

🐐 Test Setting	
Answer sheet setting create : 📓	😢 Create manual answer sheet
😒 Create automaticanswer sheet	Add question no. Add set of answer Add choice
📦 Data view :	Question no. 🙆 Set of answer Choice
🔨 Classified	
💭 All	2 2
Dotions	4
	5 5
Update mark point automatic	6
	7
	8
	9
	10
	11
	12
	13
	14
	15
	16
	OK K Cancel

10. Click OK, the dialog as below will be show:

- Add question No. add question in OMR template.
- Click at question No. that you want in the left pane → click Add set of answer in order to add set of answer as you want.
- Click set of answer that you want in the middle pane → click Add Choice in order to add choice as you want.

	OMR template editor	
OMR template editor:	Image preview	
From file From scanner Source image :	Pointer mode : Default	Zoom : 🖃 +
Reference point threshold : 80 🛃 %	Mark point matching selector.	Move pointer : (0,0)
Mark point threshold : 50 👸 %		
Mark point level : %		
Subject ID Test series Student ID Answer sheet		
Digit No. No. Row Column		
2 0 0		
3 0 0		
4 0 0		
5 0 0		
7 0 0		
8 0 0		
9 0 0		
2 0 0		
3 0 0		
4 0 0		
5 0 0		
7 0 0		
8 0 0		
Mark point matching Save K Close		
	L ⁰	

11. Click OK, the dialog as below:

12. Scan answer sheet into program, you can import answer sheet image "From file" or "From scanner"

- 12.1. From file
 - 12.1.1. Click at "From file".
 - 12.1.2. Source Image select the answer sheet file's path (image should be BMP file).
 - $12.1.3.\,Mark$ point threshold set darkness (%) of bubbles that

program can detect (the student response).

<u>Ex.</u> Mark point threshold is 40% means program can detect the bubbles which are darkness >= 40%, these are student response. For others that less than 40% will not be detect, these are blank bubble or not student response.

12.1.4. Min = 20% (50% is recommended)

12.1.5.	Click at	"Save".

	OMR template editor	
S OMR template editor :	Image preview	
From file From scanner	Pointer mode :	Zoom : 💽 +
Source image :	Default +	
Reference point threshold : 80 * %	Mark point matching selector.	Move pointer : (576,781)
Mark point diresition: 00 - 76	S S S Transaction anticidian	
Mark point level : 0 , %		
Subject ID Test series Student ID Answersheet		
Digit No. No. Row Column		
▶ 1 0 1 23		
1 2 23		
2 3 23	▲ # C C D E # ▲ # C C D E # ▲ # C C D E # ▲ # C C D E # ▲ # C C D E # ▲ # C C D E # ▲ # C C D E # △ # C C D C C D E # ○ # ○ D C D C D C D E # ○ D C D C D C D C D C D C D C D C D C D	
3 4 23		
4 5 23		
5 7 23	- 0000000 #0000000 #0000000 #0000000 - 7000000 #0000000 #0000000 #0000000 - 0000000 #00000000 #00000000	
7 8 23	- *000000 *00000 *000000 *000000 *0000000	
8 9 23		
9 10 23	- ************************************	
2 0 1 24		
1 2 24		
2 3 24		
3 4 24		
4 5 24		
5 6 24		
5 7 24		
/ 6 27		
Mark point matching Save K Close		
		EN 🔺 隆 and 🌒 13:10

- 12.2. From scanner
 - 12.2.1. Click at "From scanner"
 - 12.2.2. Source scanner select scanner
 - 12.2.3. Click at scan
 - 12.2.4. If the image is correct, clear and straight, click at Apply
 - 12.2.5. Image preview select default in order to automatically set position for each bubble, just click at each bubble.

Image preview
Pointer mode :
Default 💟
Mark point matching selector.

12.2.6. Select Student ID tab

12.2.7. Click at one row in the student ID tab, then click at bubble in the image in order to match correct template position with correct bubble position.

<u>Ex.</u> As picture below, click at row "Digit No.=2, No. = 0" means the second digit of student ID and first numeric is "0", then click at the "0" in image preview.



12.2.8. After that mark point matching dialog box will be show as below picture.

- Portrait automatically select all bubbles in the same portrait alignment.
- Landscape automatically select all bubbles in the same Landscape alignment.



Automatically select all bubbles in the same Landscape alignment

		-	120	ำทัว	สธบ						-	ประจ	ำตัว	สธบ		
1	5	5	4	0	0	2	3		1	5	5	4	0	0	2	3
	0000000000		00000000000		0000000000	00000000000		Automatically select all bubbles in the same portrait alignment		00000000000		0000000000		0000000000		00000000000

12.2.9. Do as step 12.2.7-12.2.8 for Subject ID, Test Series, Student ID and Answer sheet tab.

12.2.10. Click at Mark pointmatching to verification. If each bubble is in pink square (as picture below), you can save this template. If not, please redo 12.2.7-12.2.8.

ter.	inplat	C. II	110t, j	Jicas	c i cu	0 12	2.7 1	- 1
6	6	6	6	6	6	6	6	
0	0	0	0	0	0	0	0	
3	3	0	0	0	1	0	3	
9	9	9	9	9	9	9	9	
Sec. 10	1		0.000	-0+1	1000 H	S. O. C.	1.02	Ŀ

3.2. Edit OMR Template

- 1. File->Template Editor->Edit OMR Template -> OMR Template File.
- 2. Select OMR Template file then click at OK.
- 3. Select default in Image preview.
- 4. Do as 12.2.7-12.2.8
- 5. Click at Mark Point Matching in order to verification.
- 6. If each bubble is in pink square, save this template.

4. Test Profile

All information about test will be defined in test profile. Please note that the information in test profile is very important because this information will be involved with every step. So please complete it with correct information.

4.1. New Test Profile

1. Double clicks at in order to open EZY OMR program.

WAC ONK System	
File Tools Theme skins Help	
P) Profile	
	Zoom area :
OMIK template editor	
😂 Exit	Len: U Width: U Pixel
Imagenreview	Top: 0 Height: 0 Recei
Spend time : 0 secon	nds.
Logs 🔛 Errors	
File name Status	
	image preview :
	Zoom : 💽 👘
Finish (%) :	
0%	
	EN 🔺 🔯 🎬 🛲 🕪 - 940

2. Go to File \rightarrow Profile, the screen as below will be shown.

		Profile			
Profile					
Subject ID :	Subject name :				
001	Math				
eacher ID :	Teacher name :				
002	Sirikorn Sudhiwon				
fest date :	Amount of student :	Save in folder (*.0)MR):		
2011/06/27 14:24	10000 😜	C:\Users\ton\Do	cuments\WAC OMR\OMRfile		
)MR template file :					
C:\Users\ton\Desktop\WAC OMR\	\New folder\math00 🔤	B Save	🔮 Edit 🔍 Searc	h 🥑 Clear data	📈 Close
Profile list					
Profile name Subject ID	Subject name Teac	her ID Teacher na	ne Test date	Amount of student	Saveinfolde
▶ thai001 001	thai 002	test	2011-06-27-14-24-00	10000	C:\Users\tor
	111				

- 2.1. Subject ID
- 2.2. Subject Name
- 2.3. Teacher ID
- 2.4. Teacher Name
- 2.5. Test Date
- 2.6. Amount of student total student in that test.
- 2.7. Save in Folder the path to save OMR file.
- 2.8. OMR Template File select OMR Template.
- 2.9. Click at save and close.

4.2. Search profile

1. From profile screen, click at Search , the dialog box as below will be shown.

Profile :	Keyword :
Subject ID	
Subject name Teacher ID Teacher name Profile name Test date Amount of student	Search

2. Select field from profile drop down list, enter keyword in the right blank, and then click at Search.

5. Scan and OMR answer sheets

After finish test, all answer sheets must be scanned and OMR to check that which bubbles are student response (not correct or wrong).

There are 2 ways for OMR;

- 1. OMR From scanner scan answer sheets while OMR process in the same time.
- 2. OMR From scanned image OMR from scanned answer sheet image.

5.1. <u>OMR from scanner</u>

- 1. Double clicks at in order to open EZY OMR program.
- 2. Tick ✓ in "From scanner" check box.
- 3. Tick ✓ in "Image preview" check box if you want to see answer sheet image while scanning.



5. Click at OK.

6. Put answer sheets in scanner and then click at After finish, the screen as below will show.



- 7. The answer sheets that already scan and OMR will be in No.1 in the above picture. After file name will show OMR status "success" or "fail".
- 8. If you want to delete OMR file, click at the file in list, click right mouse and then click at "Delete OMR file"

e name		Status	<u>^</u>	
001-2011-07-04-002-36.OMR		Success		
001-2011-07-04-002-37.OMR		Success		
001-2011-07-04-002-38.OMR		Success		
001-2011-07-04-002-39.OMR		Success		
001-2011-07-04-002-40.OMR		Success		
001-2011-07-04-002-41.OMR		Success	E	
001-2011-07-04-002-42.OMR		Success		
001-2011-07-04-002-43.OMR	-			
001-2011-07-04-002-44.OMR	~	Accept changed	status OMR fil	e.
001-2011-07-04-002-45.OMR	×	Delete OMR file		
001-2011-07-04-002-46.OMR	51	D ()		
001-2011-07-04-002-47.OMR	10	Ketresn		
001-2011-07-04-002-48.OMR		Success		
001-2011-07-04-002-49.OMR		Success	- 1	
001-2011-07-04-002-50.OMR		Success		
001-2011-07-04-002-51.OMR		Success		

5.2. <u>OMR from scanned image</u>

- 1. Double clicks at in order to open EZY OMR program.
- 2. <u>Clear ✓</u> from check box "From scanner".
- 9. Tick ✓ in "Image preview" check box if you want to see answer sheet image while scanning.
- 3. Go to Tool \rightarrow Option \rightarrow File type. Select as image file.
- 4. Select answer sheet image file from Source folder.
- 5. Select profile by click at 💻
- 6. Click OK
- 7. Put answer sheets in scanner and then click at



6. Student ID Checker

This use for verify student ID in answer sheets are as same as database (Excel file).

1. Double clicks at , the screen as below will be show.

Select student database :				
Select sheet :	Select student ID field :		8	
	*		Check ID	Edit
Display other field :				
		-	(1)	
Select profile :			10	60
			Options	Exit
				0
Correct checking 🛛 💽 Incorre	ct checking 🛛 🚷 Absent			

- 2. Select student database as Excel file.
- 3. Select sheet select sheet which are student database.
- 4. Select student ID field select student ID field in that sheet.
- 5. Display other field select other field to display with student ID such as student name.

STD_NAME	-
🗐 (Select All)	<u>ک</u>
🗖 F3	
🔲 F4	_
E F5	
E F6	
E F7	
F8	-

- 6. Click OK.
- 7. Select test profile.



, after that the screen as picture below will be show.

semation plug-in :						
pping data						
Select student database :						
C:\Users\ton\Desktop\tepsirin.xls						
Select sheet : Select studen	t ID field :	S ()				
Sheet1 + STD_ID		Check ID Edit				
Display other field :						
STD_NAME						
Select profile :		6				
thai001						
072072		Exit				
Correct Checking (70) 🛛 🍓 Incorrect Checking (5) 🏾 🍓 Absent					
A File name	Student ID (OMR)	Student ID (Convert Excel to OMR)	Status	STD_NAME	STD_ID	
1001-2011-07-05-002-315.0MR	25540019	25540019	Complete	สัญญช คระ	25540019	
V 001-2011-07-05-002-316.OMR	25540081	25540081	Complete	зяня	25540081	
V 001-2011-07-05-002-317.OMR	25540052	25540052	Complete	จิรศักด์ เมร	25540052	
V 001-2011-07-05-002-318.OMR	25540036	25540036	Complete	ณัฐสิทธิ์ เท	25540036	
V 001-2011-07-05-002-319.OMR	25540030	25540030	Complete	ກັສເງິກາ ຊາາ	25540030	
V 001-2011-07-05-002-320.OMR	25540022	25540022	Complete	กิลลิศักดิ์	25540022	
V 001-2011-07-05-002-321.OMR	25540041	25540041	Complete	ใดรภท เพิ่	25540041	
V 001-2011-07-05-002-323.OMR	25540012	25540012	Complete	ทศพร ม่วงศ	25540012	
V 001-2011-07-05-002-324.OMR	25540011	25540011	Complete	ศิรินภา หอม	25540011	
V 001-2011-07-05-002-327.OMR	25540005	25540005	Complete	สุวรรณี บุญ	25540005	
1001-2011-07-05-002-328.OMR	25540020	25540020	Complete	ออมส์ ขาวหนุ	25540020	
	25540021	25540021	Complete	ภัทร ศาแนง	25540021	
W 001-2011-07-05-002-329.0MR	25540023	25540023	Complete	สุริมล โทธ์พระ	25540023	
♥ 001-2011-07-05-002-329.0MR ♥ 001-2011-07-05-002-330.0MR			Complete	ชญานิศ มห	25540024	
Image: Contract 11-07-05-002-324, CMR Image: Contract 11-07-05-002-330, CMR Image: Contract 11-07-05-002-331, CMR	25540024	25540024				
 ♥ 001-2011-07-05-002-329.0MR ♥ 001-2011-07-05-002-330.0MR ♥ 001-2011-07-05-002-331.0MR ♥ 001-2011-07-05-002-332.0MR 	25540024 25540025	25540024 25540025	Complete	กรริชญ์ จัน	25540025	

9. The student ID that are correct matching will be show in Correct checking tab. The student ID that are wrong matching will be show in Incorrect checking tab, these may caused by no student ID in database, incomplete student ID, duplicate student ID, etc.

1	Corre	tt Checking (70) 🛛 🤙 Incorrect Checking (5)	褖 Absent				
		File name	Student ID (OMR)	Student ID (Convert Excel to OMR)	Description	STD_NAME	STD_ID
>	×	001-2011-07-05-002-325.OMR	24440002		No student ID in file Excel.		
	8	001-2011-07-05-002-326.OMR	25550004		No student ID in file Excel.		
	8	001-2011-07-05-002-344.OMR	25540645		No student ID in file Excel.		
	8	001-2011-07-05-002-174.OMR	*******		Duplicate student ID in the file OMR. No student ID in file Excel.		
	8	001-2011-07-05-002-322.OMR	******		Duplicate student ID in the file OMR./No student ID in file Excel.		

10. For the incorrect student ID, you can edit them by double clicks at each row (as above picture). The screen as below picture will be show.

Information plug-in :	4	bo blank to soarch
Information plug in : tapong data Sect tablem diabase : CrUsers tablem diabase : CrUsers tablem diabase : CrUsers tablem diabase : Sect aution diabase :	Editor In X	he blank to search or the correct tudent ID
3 001-2011-07-04-002-43.0MR		
n (%) :		Spend time : 2 seconds.
	100%	

11. Type the correct student ID in "New student ID" and then click at Save.



12. The edited student ID will be move to correct student ID tab.

7. Test Analysis setting

- 1. Double clicks at
- 2. From Test analytic & statistic screen. Go to Tool→ Setting. The screen as below will be show.

Setting	
🔩 Import	Import Student Information
🔩 Scale Score	Import Student Information
🔩 Analysis	Import Student Data : C:\Documents and Settings\Administrator\Desktop\tep ···
	Select sheet : Sheet1 +
	Select student ID : STD_ID +
	Map Data Field : F3 F4 F5 F6
	F7 F8 STD_ID STD_NAME
	QK Cancel

Import setting- for import student information (Excel file).

- Import student data select student database's path.
- Select sheet select sheet which is student database.
- Select student ID select student ID field.
- Map data field display other information.

Scale score setting

🔩 Import	Learning (Objectives and Define sco	re for correct response
🔩 Scale Score	Define scor	e for correct response	Custom Score
	Learning O	Djectives	Objectives :
	+ / >		+ / X
	ID	Name	Name
	>1 1	Math	>1 1
	2 2	Science	
	3 3	Geographic	

- Define score for correct response.
 - 1 score 1 correct response = 1 score.
 - Custom score 1 correct response = custom score.
- Learning objective
 - Import import learning objective list.
 - Subject subject name.
 - Objective 1 question supports 5 objectives. 1 subject supports unlimited objective.

Analysis setting

Import	Upper-Lower	Group		
🔩 Scale Score	0 25%	© 27%	⊘ 33%	() 50%

Set upper-lower group.

8. Answer Key

- 1. Double clicks at
- Test analytic & statistic screen. Go to File → New → Project. The screen as below picture. จะได้หน้าจอตามภาพ

Source OMR Directory :	C: Users\ton\Documents\WAC OMR\DMRFILE	
Answer key	Descriptions File Name : Subject No. : Subject Name : Subject 's : Question : Choice : Teacher ID : Teacher name : Test date : Test place :	

8.1. <u>Create new answer key file</u>

1. Click at Select answer key tab and then click at 🔶 to create new answer key file.

Answer key	
Answer	key inpormation
Subject ID:	001
Subject Name:	Math
Descriptions:	Parabola
Question:	120 🗘 (1 - 200) Choices: 6 🌲
Teaher ID:	002
Teacher name:	Sirikorn Sudhiwan
Test date:	04/07/2554 -
Test place:	Tepsirin
	Set score Add Subjectand Objective
	<u>Ok</u> <u>C</u> ancel

Complete all blanks.

- Subject ID must same as test profile.
- Subject Name
- Description subject description.
- Question total questions in the test.
- Choices total choice in each question.
- Teacher ID
- Teacher Name
- Test date
- Test place
- 2. After complete all blanks, click at OK. The dialog box as below will be show.



Single mode is 1 correct response = 1 score

Advanced mode is 1 correct response = custom score *In this manual use simple mode.

3. Click at correct answer in circle and select scoring type.

:: /	Answer key	Inform	ation	n										
	Su	bject	ID :	001							Te	eache	er ID	: 002
	Subje	ect Nan	ne:	Math							Те	eache	er na	me: Sirikorn Sudhiwan
	(Questi	on :	120							Te	est da	ate:	04/07/2554
		Choi	ce:	6							Te	est pl	lace :	: Tepsirin
	Please sele	ct the a	on:	ภาคต er kev	โ ดกร	28								
	No						Ch	oice						Scoring Type
T	001	0	1	0	2	0	3	0	4	0	5	0	6	Single Choice
t	002	0	1	0	2	0	3	0	4	0	5	0	6	Single Choice
	003	0	1	0	2	0	3	۲	4	۲	5	0	6	FreeScored 🔹
Γ	004	0	1	0	2	0	3	0	4	0	5	0	6	Single Choice
	005	0	1	0	2	0	3	0	4	0	5	0	6	FreeScored
	006	0	1	0	2	0	3	0	4	0	5	0	6	Single Choice
	007	0	1	0	2	0	3	0	4	0	5	0	6	Single Choice
	008	0	1	\bigcirc	2	0	3	0	4	0	5	\bigcirc	6	Single Choice
	009	0	1	0	2	0	3	0	4	0	5	0	6	Single Choice
	010	۲	1	0	2	\odot	3	\odot	4	0	5	\odot	6	Single Choice
	011	0	1	\bigcirc	2	\bigcirc	3	0	4	\bigcirc	5	\bigcirc	6	FreeScored
	012	0	1	0	2	0	3	0	4	\bigcirc	5	0	6	Single Choice
	013	۲	1	0	2	0	3	0	4	0	5	0	6	Single Choice
	014	0	1	0	2	\bigcirc	3	0	4	0	5	0	6	Single Choice
	015	0	1	0	2	0	3	\bigcirc	4	\bigcirc	5	\bigcirc	6	Single Choice
	016	۲	1	\bigcirc	2	0	3	0	4	0	5	\bigcirc	6	Single Choice
	017	۲	1	0	2	0	3	\bigcirc	4	\bigcirc	5	0	6	Single Choice
	018	0	1	0	2	0	3	0	4	0	5	0	6	Single Choice

- Single choice 1 correct answer only.
- Free Score free score for all response.
- After finish, click at OK.
- 4. Name answer key file and then save (*.azt)
- 5. The answer key file description is as below picture.

Select answer key	Select OMR Directory
Answer key	Descriptions File Name: Math001.azt
Math001.azt	Subject No.: 001
	Subject Name : Math
	Subject's: ภาคตัดกรวย
	Question: 120
	Choice: 6
	Teacher ID: 002
	Teacher name : Sirikom Sudhiwan
	Test date : 04/0//2554
	Test place : Tepsinn

8.2. Edit answer key

- 1. Click at Select answer key tab. Select answer key file which you want to edit.
- 2. Click at 🧖, the answer key screen will be show.
- 3. Edit answer key.
- 4. Click OK.

8.3. <u>Delete answer key</u>

- 1. Click at Select answer key tab. Select answer key file which you want to delete.
- 2. Click at [×] to delete.
- 3. Click OK.

9. Score, analyze and statistic

9.1. Score and analysis

- 1. Click at OMR directory tab.
- 2. Select OMR file at folder "subject ID\success" in the left pane. The screen as below will be show.



3. Click OK. After finish analyzed process. The screen as below picture will be show.

Student Response Tab – this report shows response of each student, total students that are correct/ incorrect response in each question.

No.Propect Subtrit response Subtrit response Depart Subtrit response	Project 🌣		Student Response	Student :	Statis	tics																					Answer ke
Subset regene Norm	New Project	Stud	lent response Report																								-
1 Image: Normality of the period of the	Student response		IBSTO_N#	ME	-1 -	2 - 4	+ + +	- s-	- 6-	- 7-	-8-	-9-	-10-	- 14 -	±2 -	-13	-14	15 -	-16-	-17-	- 16 -	-19-	-28-	- 24 -	-22-	-23-	
Boot int into a second seco		>1	Answer Key																								
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6 255000 ñgan ígan	Analysis 🔅	5	25540036 ณัฐสิทธิ์ เทสไ	ú.	2	2	-4	5	6	5	(4	3	2		5	4	3	2	2	1	2	3	5	4	5	4	
7 256002 Assimif 2 2 4 5 5 5 4 3 2 1 2 3 5 4 5 5 5 4 3 2 1 2 3 5 4 5 5 5 4 3 2 1 2 3 5 4 5 5 5 4 3 2 1 2 3 5 4 5 5 5 5 5 4 3 2 1 2 3 5 4 5 5 5 5 5 5 5 5 5 4 3 2 1 2 3 5 4 3 2 1 2 3 5 4 3 2 1 3 2 1 2 3 5 4 3 2 1 2 3 5 4 3 2 1 2 3 5 4 3 2 1 2 3 5 4 <t< td=""><td>B. Analyses data</td><td>6</td><td>25540030 กัฒฐิภา ยุทธิส</td><td>สนธ์</td><td>1</td><td>2</td><td>4</td><td>5</td><td>6</td><td>5</td><td>- 84</td><td>3</td><td>2</td><td></td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>2</td><td>2</td><td>3</td><td>4</td><td>4</td><td>4</td><td>3</td><td>-</td></t<>	B. Analyses data	6	25540030 กัฒฐิภา ยุทธิส	สนธ์	1	2	4	5	6	5	- 84	3	2		6	5	4	3	2	2	2	3	4	4	4	3	-
B 2350001 Ream winger 1 1 4 5 6 5 4 3 2 1 2 3 5 4 5 6 5 4 3 2 1 2 3 5 4 5 6 5 6 5 <	Analyze uata	7	25540022 คิดติศักดิ์		2	2	4	5	5	5	4	3	2			5	4	3	2	1	2	3	5	4	5	4	
9 9000000000000000000000000000000000000	E Test analysis report	8	25540041 ใตรกท เพ็ญส	(U	1	1	4	5	6	5	4	3	2		5	5	4	3	2	1	2	3	5	4	5	4	
10 2550021 Allow read/or winds 1 2 3 5 1 2 3 4 5 4 3 2 1 2 3 4 4 4 4 3 2 5 5 4 3 2 1 2 3 5 4 4 3 2 5 5 4 3 2 1 2 4 5 6 5 5 5 4 3 2 1 2 3 5 4 5 5 5 5 5 4 3 2		9	25540012 เทศพระม่วงครีท่	h	1	2	4	5	6	5	4	3	2		5	5	4	3	2	1	2	3	5	4	5	4	
Inv: 11 2550003 abive finance 1 2 4 5 6 5 5 5 5 2 2 3 4 5 6 5 4 3 2 1 2 1 2 4 3 2 1 2 1 2 4 3 2 1	Export Analysis report	10	25540011 สีรับกา หอมจัง	นทร์	2	3	5	2	1	2	.4	5	3		2	3	2	3	4	3	4	2	4	2	4	3	
Summary 12 23500003 grand support 1 2 4 4 5 6 5 4 3 1 2 3 5 4 5 4 3 1 2 3 5 2 1 2 3 5 4 5 4 4 4 4 4 4 4 4 2 2 2 2 2 5 5 4 3 2 1 2 4 5 4 3 2 1 2 4 5 6 5 4 3 2 1 2 3 5 4 5 2 1 2 3 5 4 5 4 3 2 1 2 3 5 4 3 2 1 2 3 5 4 3 2 1 2 3 5 4 3 2 1 2 3	Print .	11	25540013 อดีศักด์ พางห	84	1	2	4	5	6	5	4	3	2		5	5	5	5	2	2	3	4	5	4	5	4	
Summary R I 2.50002 and event 4 4 4 4 4 4 2 2 2 5 5 4 3 2 1 2 4 5 4 5 4 3 2 1 2 4 5 4 5 4 3 2 1 2 4 5 4 5 4 3 2 1 2 4 5 4 5 4 3 2 1 2 3 5 4 6 6 6 6 6 6 6 6 5 4 3 2 1 2 3 5 4 6 5 6 4 3 2 1 2 3 5 4 3 2 1 2 4 6 5 5 4 3 2 1 2 1 2 4 5 6		12	25540005 สุวรรณี บุญรอ	n e	1	2	4	5	6	5	((4	3	3		1	2	3	5	2	1	2	3	5	4	5	4	
Statucic Survey 14 25540001 first status 1 2 4 5 6 5 4 3 2 1 2 3 5 4 5 4 3 2 1 2 3 5 4 5 4 3 2 1 2 3 5 4 5 6 4 3 2 5 5 4 3 2 1 2 3 5 4 6 6 6 6 6 6 6 5 5 5 4 3 2 1 2 3 5 4 6 6 5 4 3 2 1 2 3 5 4 6 5 5 4 3 2 1 2 3 5 4 3 2 1 2 3 5 6 5 4 3 2 1 2 3 5	Summary *	13	25540020 ออมส์ ขาวหน	1.	4	4	4	4	2	2	2	2	2		5	5	4	3	2	1	2	4	5	4	5	4	
15 2550023 dua fundio: 1 2 4 6 6 6 4 3 2 5 5 4 3 2 1 2 3 5 4 6 6 16 2550023 dua fundia annexa 1 2 4 5 6 5 4 1 2 5 5 4 3 2 1 2 3 5 4 6 17 2550025 mining divinun 1 2 4 6 5 5 4 3 2 1 2 3 5 6 5 4 18 2550025 mining divinun 1 2 4 5 6 5 4 3 2 1 2 3 5 4 5 19 2550027 mining divinun 1 2 4 5 6 5 4 3 2 1 2 3 5 4 5 2550027 mining divinu 1 2 4 5 4 3 2 2 <td>Statistics Summary</td> <td>14</td> <td>25540021 ภัพร สาแผง</td> <td></td> <td>1</td> <td>2</td> <td>4</td> <td>5</td> <td>6</td> <td>5</td> <td>4</td> <td>3</td> <td>2</td> <td></td> <td>5</td> <td>5</td> <td>4</td> <td>3</td> <td>2</td> <td>1</td> <td>2</td> <td>3</td> <td>5</td> <td>4</td> <td>5</td> <td>4</td> <td></td>	Statistics Summary	14	25540021 ภัพร สาแผง		1	2	4	5	6	5	4	3	2		5	5	4	3	2	1	2	3	5	4	5	4	
16 2550025 dramfin anymetant 1 2 4 5 6 5 4 3 2 1 2 3 5 4 5 6 5 4 3 2 1 2 3 5 4 5 6 5 4 3 2 1 2 3 5 4 5 6 5 4 3 2 1 2 3 5 6 5 4 18 2550026 dram shipe 1 2 4 5 6 5 4 3 2 1 2 3 5 4 5 6 5 4 3 2 1 2 3 5 4 5 4 3 2 1 2 3 5 4 5 4 3 2 2 1 2 3 5 4 3 2 2 1 2 3 5 4 3 2 1 2 3 5 4 3 2 2 <t< td=""><td></td><td>15</td><td>25540023 สวีมล โทย์พร</td><td>•</td><td>1</td><td>2</td><td>4</td><td>6</td><td>6</td><td>6</td><td>4</td><td>3</td><td>2</td><td></td><td>5</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td>2</td><td>3</td><td>5</td><td>4</td><td>4</td><td>6</td><td></td></t<>		15	25540023 สวีมล โทย์พร	•	1	2	4	6	6	6	4	3	2		5	5	4	3	2	1	2	3	5	4	4	6	
12 2500025 mfragi Junica 1 2 4 5 5 4 1 2 5 5 4 3 2 1 2 3 5 6 5 4 18 2550005 #size elemini 1 2 4 6 5 5 4 3 2 1 2 1 2 4 5 6 4 3 2 1 2 1 2 5 6 4 3 2 1 2 1 2 3 5 6 5 4 19 2550025 minerepairie 1 2 4 5 4 3 3 2 5 5 4 3 2 1 2 3 5 4 3 2550025 minerepaire 1 2 4 5 4 3 2 5 5 4 3 2 1 2 3 5 4 3 2 2 1 2 3 5 4 3 2 1		16	25540024 ชญานิศ มหาว	9556L	1	2	4	5	6	5	4	3	2		5	5	4	3	2	1	2	3	5	4	5	4	
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19 2550007 Answegawaris 1 2 4 5 6 5 4 3 2 5 4 4 3 2 1 2 3 5 4 5 4 200 2550007 Answegawaris 1 2 4 5 4 3 2 5 4 3 2 2 3 5 4 5 4 21 2550007 Answegawaris 1 2 4 5 6 5 4 3 2 1 2 3 5 4 5 22 2550007 Answegawaris 1 2 4 5 6 5 4 3 2 1 2 3 5 4 5 23 2550007 Answegawaris 1 3 6 5 4 3 2 5 4 3 2 1 2 3 5 4 5 2550007 Answegawaris 1 3 6 5 4 3 2		18	25540026 สรภพ ศริสุข		2	2	4	6	5	5	4	3	2		5	6	4	3	2	1	2	4	5	6	5	4	
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21 2500023 effective functionem 1 2 4 5 6 5 4 3 2 1 2 3 5 4 5 22 2550003 effective functionem 1 2 3 6 5 4 3 2 2 1 2 3 5 4 5 23 2550003 effective functionem 1 3 4 5 3 2 4 5 2 2 1 2 3 5 4 5 23 2550003 effective functionem 1 3 4 5 5 4 3 2 1 2 3 5 4 5 24 2550003 effective functionem 1 2 4 5 5 4 3 2 1 2 1 2 5 4 3 2 1 2 1 2 3 5 4 5 4 3 2 2 1 2 3 5		20	25540028 คนกพร หุลมา		1	2	4	5	4	4	3	3	2		5	4	3	2	2	1	2	3	5	4	5	4	
22 2550033 quart shutes 1 2 3 6 5 4 3 2 5 4 3 2 2 1 2 3 4 5 4 23 2550033 quart shutes 1 3 4 5 5 4 3 2 4 5 4 5 4 24 2550077 usg6th rbds 1 2 4 5 6 5 4 3 2 1 2 3 5 4 5 26 2550077 usg6th rbds 1 2 4 5 6 5 4 3 2 2 1 2 3 5 4 5 26 2550077 usg6th rbds 1 2 4 5 6 5 4 3 2 2 1 2 3 5 4 5 26 250077 usg6th rbds 1 2 4 5 4 3 2 2 1 2 3 5 4 5 4		21	25540029 ซัยวัฒน์ เนื่องเ	สข	1	2	4	5	6	5	4	3	2		5	5	4	3	2	1	2	3	5	4	5	4	
23 2550003 #wikes 1 3 4 5 5 4 3 2 4 5 2 4 5 2 1 2 3 5 4 5 4 3 2 4 5 4 3 2 4 5 2 1 2 3 5 4 5 4 24 255900377 46006 1 2 5 4 3 2 1 2 3 5 4 5 4 3 2 5 4 3 2 1 2 3 5 4 5 4 3 2 1 3 5 4 5 4 3 2 2 1 2 3 5 4 5 4 3 2 1 2 3 5 4 5 4 3 2 1 2 3 5 4 5 </td <td></td> <td>22</td> <td>25540033 สุรเตช ชำเมือ</td> <td>14</td> <td>1</td> <td>2</td> <td>3</td> <td>3</td> <td>6</td> <td>5</td> <td>4</td> <td>3</td> <td>2</td> <td></td> <td>5</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>4</td> <td>5</td> <td>4</td> <td></td>		22	25540033 สุรเตช ชำเมือ	14	1	2	3	3	6	5	4	3	2		5	4	3	2	2	1	2	3	4	4	5	4	
24 2554037 argébul népát 1 2 4 5 6 5 4 3 2 2 1 2 3 5 4 5 4 3 2 2 1 2 3 5 4 5 4 3 2 2 1 2 3 5 4 5 4 3 2 2 1 2 3 5 4 3 2 2 1 2 3 5 4 3 2 2 1 2 3 5 4 3 2 2 1 2 3 5 4 3 2 2 1 2 3 5 4 3 2 2 3 3 2 2 1 3 5 4 3 2 2 3 2 3 3 4 3 3 3 3 2 1 <th3< th=""></th3<>		23	25540034 ศัสด์ชร		1	3	4	5	3	5	4	3	2		4	5	4	3	2	1	2	3	5	4	5	4	
		24	25540037 เสรรนันท์ กลัง	มดี	1	2	4	5	6	5	4	3	2		5	4	3	2	2	1	2	3	5	4	5	4	
		20	25540028 10102 51152		1	.2	4	5	6	5	4	2	7		5	0	2	2	2	1	2	2	5		5	4	
		4																									

- Green correct response.
- Gray incorrect response.
- Red no response or duplicate response.

<u>Student Statistics Tab</u> – this shows score statistic of each student.

roject	~	() S	itudent Res	ponse Studen	Statistics											
New Project		Stude	ent Statistics													
Student response		(iii)	ID	STD_NAME	Total Questions	Correct	Incorrect	Free Score	Full Scale Score	Raw Score	Ranking	Quartile	Percentile	Z-Score	T-Score	Stanine
		>1	25540019	ត័លូលុម គរៈទេទ័ល្												11.36
Export		2	25540081	จตุพร	120	11	107	2	120	13	17	Q3	64.44	0.26	52.6	5.52
p Drint		3	25540052	จีรศักด์ เมราเสถียร	120	13	105	2	120	15	7	Q4	86.67	0.91	59.1	6.82
p Print		4	25540036	ณัฐสิทธิ์ เทสโต้	120	7	105	2	120	9	38	Q1	17.78	-1.04	39.6	2.92
Analysis	~	5	25540030	กัณฐ์ภา อุทธิสนธ์	120	8	110	2	120	10	29	Q2	37.78	-0.71	42.9	3.58
Australian data		6	25540022	กิลดิศักดิ์	120	8	109	2	120	10	29	Q2	37.78	-0.71	42.9	3.58
Andryze Gata		7	25540041	ใตรภพ เพ็ญสุข	120	9	109	2	120	11	25	Q2	46.67	-0.39	46.1	4.22
Test analysis report	- 1	8	25540012	ทศพร ม่วงศรีพ้า	120	8	110	2	120	10	29	Q2	37.78	-0.71	42.9	3.58
		9	25540011	ศิรินภา หอมจันทร์	120	12	104	2	120	14	11	Q4	77.78	0.58	55.8	6.16
Export Analysis report		10	25540013	อดีศักดิ์ พวงทอง	120	9	108	2	120	11	25	Q2	46.67	-0.39	46.1	4.22
Print		11	25540005	สุวรรณี บุญรอด	120	8	104	2	120	10	29	Q2	37.78	-0.71	42.9	3.58
		12	25540020	ออมส์ ขาวหนู	120	9	108	2	120	11	25	Q2	46.67	-0.39	46.1	4.22
Summary	*	13	25540021	ภัทร ศาแผง	120	7	110	2	120	9	38	Q1	17.78	-1.04	39.6	2.92
Statistics Summary		14	25540023	สุวิมล โทธ์พระ	120	11	107	2	120	13	17	Q3	64.44	0.26	52.6	5.52
Statistics Summary	-	15	25540024	ชญานิศ มหาวรรณ	120	10	108	2	120	12	20	Q3	57.78	-0.06	49.4	4.88
		16	25540025	กรวิชญ์ จันทร์นาด	120	14	104	2	120	16	5	Q4	91.11	1.23	62.3	7.46
		17	25540026	สรภพ ศรีสุข	120	15	98	2	120	17	2	Q4	97.78	1.56	65.6	8.12
		18	25540027	พีรยา สุขแสวง	120	7	110	2	120	9	38	Q1	17.78	-1.04	39.6	2.92
		19	25540028	กนกพร หูลมา	120	8	110	2	120	10	29	Q2	37.78	-0.71	42.9	3.58
		20	25540029	ชัยวัฒน์ เนื่องสุข	120	8	110	2	120	10	29	Q2	37.78	-0.71	42.9	3.58
		21	25540033	สุรเดช ข่าเมือง	120	8	110	2	120	10	29	Q2	37.78	-0.71	42.9	3.58
		22	25540034	ศิรพัชร	120	12	106	2	120	14	11	Q4	77.78	0.58	55.8	6.16
		23	25540037	เสรฐนันท์ กลับดี	120	8	110	2	120	10	29	Q2	37.78	-0.71	42.9	3.58
		24	25540038	เรนุภา อุ่นอ่อน	120	6	112	2	120	8	42	Q1	8.89	-1.36	36.4	2.28
		25	25540039	ธนกลุด	120	6	112	2	120	8	42	Q1	8.89	-1.36	36.4	2.28
		20	25540040	สันหา เมืองและถึงเหล่	170	6	111	7	120	8	47	01	8 80	-1 36	36.4	2.28

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This provides score and statistic as follow;

- Total questions
- Correct total correct response.
- Incorrect total wrong response.
- Free score total free score.
- Full scale score total score.
- Raw score.

- Ranking.
- Quartile.
- Percentile.
- Z-Score.
- T-Score.
- Stannie.

If you want to preview student answer sheet image, double clicks at each student field.

	ID	STD_NAME	Total Questions	Correct	Incorrect	Free Score	Full Scale Score	Raw Score	Ranking	Quartile	Percentile	Z-Score	T-Score	Stanine
1	25540019	ธัญญช คงเจริญ	120	20	98	2	120	22	1	Q4	100	3.18	81.8	11.36
	25540081	าตุพร	120	11	107	2	120	13	17	Q3	64.44	0.26	52.6	5.52
	25540052	จิรศักด์ เมราเสดียร	120	13	105	2	120	15	7	Q4	86.67	0.91	59.1	6.82
	25540036	ณัฐสิทธิ์ เทสได้	120	7	105	2	120	9	38	Q1	17.78	-1.04	39.6	2.92
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9.1.1. Export

The student response and evaluated data can be export to .CSV and .TXT file format in order to use with SPSS program.

1. From Test analytic & statistic screen, go to kill show.

Select
Student Response
Student Statistics
Export data
🕼 Response data
🗉 Evaluated data
Export as
Comma Seperated Value format(.csv)
Text file format(.txt)

- 2. Select data tab; Student response or Student Statistics
- 3. Select export data; response data or evaluated data.
 - 3.1. Response data the student response in each question.
 - 3.2. Evaluate data the data shows that correct response = 1, incorrect response = 0
- 4. Select export file type; csv file or text file

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1	ID	STD_NAME		1	2	3	4	5	6	7	8	9)	10	
2		Answer Key		3	4	0	5	1	4	1	3	1	(1
3	2554001	9 Thanyanuch Kor	ngchareon	1	2	0	4	4	6	5	4	3	3		
4	2554008	1 Jatuporn Prompo	ong	3	2	0	4	5	6	5	6	3	3	;	
5	2554005	2 Jirasak Saijai		1	2	0	4	6	6	5	4	3	3	4	é .
6	2554003	5 Nattasit Testai		2	2	0	4	5	6	5	4	3	3		
7	2554003	Kantipa Yuyod		1	2	0	4	5	6	5	4	3	3	1	
8	2554002	2 Kiitisak Pakdee		2	2	0	4	5	5	5	4	3	3	1	
9	2554004	1 Tripob Pensuk		1	1	0	4	5	6	5	4	3	3	1	2
10	2554001	2 Tossaporn Muar	ngfa	1	2	0	4	5	6	5	4	3	3	1	2
11	2554001	1 Sirinapa Homjan	-	2	3	0	5	2	1	2	4	5	i	1	
12	2554001	Adisak Puanotho	na	1	2	0	4	5	6	5	4	3	ł	1	

Export student response data

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1	A	В	С	D	E	F	G	Н	I	J	К	L	
1	ID	STD_NAME	Total Questions	Correct	Incorrect	Free Score	Full ScaleScore	Raw Score	Ranking	Quartile	Percentile	Z-Sco	7
2	25540019	Thanyanuch Kongchareor	120	20	98	2	120	22	1	Q4	100		
3	25540081	Jatuporn Prompong	120	11	107	2	120	13	17	Q3	64.44		
4	25540052	Jirasak Saijai	120	13	105	2	120	15	7	Q4	86.67	_	
5	25540036	Nattasit Testai	120	7	105	2	120	9	38	Q1	17.78	(e	
6	25540030	Kantipa Yuyod	120	8	110	2	120	10	29	Q2	37.78		
7	25540022	Kiitisak Pakdee	120	8	109	2	120	10	29	Q2	37.78		
8	25540041	Tripob Pensuk	120	9	109	2	120	11	25	Q2	46.67	~ ~	=
9	25540012	Tossaporn Muangfa	120	8	110	2	120	10	29	Q2	37.78		
10	25540011	Sirinapa Homjan	120	12	104	2	120	14	11	Q4	77.78		
11	25540013	Adisak Puangthong	120	9	108	2	120	11	25	Q2	46.67		
12	25540005	Suwannee Boonrod	120	8	104	2	120	10	29	Q2	37.78	1	
13	25540020	Oomsin Nookao	120	9	108	2	120	11	25	Q2	46.67	્	
14	25540021	Patara Kamhang	120	7	110	2	120	9	38	Q1	17.78	6	
					-		-						

Export evaluated data

9.2. <u>Test Analysis</u>

From Test Analysis & Statistic screen, click at Analyze data in the left, then click at Test Analysis Report, the dialog box as below will be show.

lest analysis r	eport						-					
No	*	Choice	GroupHigh	GroupMiddle	GroupLow	PHigh	PLow	Р	Delta	r	Rbis	Rpb
• 1			36	9	3	1.00	0.61	0.90	22/16	0.49		
		2	0	0	5	0.00	0.14	0.07	11.73	-0.14		
		3	0	0	1	0.00	0.03	0.01	10.94	-0.03		
		4	0	0	1	0.00	0.03	0.01	10.94	-0.03		
		5	0	0	0	0.00	0.00	0.00	10.81	0.00		
		6	U	0	0	0.00	0.00	0.00	10.81	0.00		
		Error	0	0	0							
2		1	0	0	1	0.00	0.03	0.01	10.94	-0.03		0.40
		2	35	0	32	0.97	0.89	0.93	23.12	0.08	0.14	0.13
		3	1	0	2	0.03	0.06	0.04	11.34	-0.03		
		4	0	0	1	0.00	0.03	0.01	10.94	-0.03		
		5	0	0	0	0.00	0.00	0.00	10.81	0.00		
		0	0	0	0	0.00	0.00	0.00	10.81	0.00		
		Error	0	0	0							
3		1	U	0	2	0.00	0.06	0.03	11.20	-0.06		
		2	1	0	2	0.03	0.06	0.04	11.34	-0.03	0.04	0.40
		3	35	0	28	0.97	0.78	0.88	22.46	0.19	0.24	0.19
		4	0	0	3	0.00	0.08	0.04	11.34	-0.08		
		5	0	0	0	0.00	0.00	0.00	10.81	0.00		
		0	0	0	1	0.00	0.03	0.01	10.94	-0.03		
		Error	0	0	0	0.00	0.00	0.00	10.01	0.00		
-		1	1	0	2	0.00	0.00	0.00	11.24	0.00		
		2	1	0	2	0.03	0.06	0.04	11.39	-0.03	0.16	0.29
		3	4	0	22	0.11	0.00	0.06	22.20	0.11	0.16	0.28
		4	1	0	32	0.03	0.09	0.00	11.20	-0.00		
		6	1	0	1	0.03	0.05	0.05	10.91	0.00		
		6	0	0	0	0.00	0.00	0.00	10.01	0.00		

9.2.1. <u>Export</u>

1. Click at Export Analysis Report in the left, the dialog box as below will be show.

Exp	ort
1	Export as
	Comma Seperated Value format(.csv)
	📑 Export 🛛 🗱 Cancel

2. Mark ⊠ before "Comma Separated value format (.CSV) and then click at Export.

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1	No	#		Choice	GHigh	GMid	GLow	PHigh	PLow	P	Delta	r	Rbis	Rpb	
2		1*		1	36	0	2	9 1	0.8	0.9	22.73	0.19	0.36	0.31	
3				2	0	0		5 0	0.1	4 0.07	11.73	-0.14			
4				3	0	0		1 0	0.0	0.01	10.94	-0.03			
5				4	0	0		1 0	0.0	0.01	10.94	-0.03			
6				5	0	0		0 0		0 0	10.81	0			
7				6	0	0		0 0		0 0	10.81	0			
8				Error	0	0		0							
9		2		1	0	0		1 0	0.0	0.01	10.94	-0.03			
10		*		2	35	0	3	2 0.97	0.8	9 0.93	23.12	0.08	0.14	0.13	
11				3	1	0		2 0.03	0.0	6 0.04	11.34	-0.03			
12				4	0	0		1 0	0.0	0.01	10.94	-0.03			
13				5	0	0		0 0		0 0	10.81	0			
14				6	0	0		0 0		0 0	10.81	0			

9.3. <u>Statistics summary</u> 1. Click at Statistic Summary.



2. The screen as below will be show.

Project	\$	Summary Statist	ics (No	rm-ref	erenced)		
New Project		Туре	Mean	Min	Median	Max	Stddev	Var
Student response		Raw Score	11.864	0	12	23	5.488	30,123
		Z-Score	0.001	-2.16	0.03	2.03	1	1.001
Export		> T-Score	50.014	28,4	50.3	70.3	10.003	100.063
p Export		Stanine	5.003	0.68	5.06	9.06	2.001	4.003
) Princ		Difficulty Indice(p)	0.152	0	0.091	0.727	0.162	0.026
Analysis	*	Delta	13	9.253	11.493	27.148	4	15.999
Analysis data		Disc. Index(r)	-0.005	-0.727	0	0.636	0.214	0.046
Analyze data		Biserial(Rbis)	0.111	-0.291	0.077	0.545	0.149	0.022
Test analysis report		Point-Biserial(Rpb)	0.151	-0.21	0.085	0.506	0.179	0.032
Summary	*	KR20 = 0.706 KR21 = 0.633			SEM20 = 2.907 SEM21 = 3.248			
Statistics Summary		-CRONBACH ALP	HA RELI	ABILTY	STATISTI	cs –		
		ALPHA = 0.706 SEM-ALPHA = 2.907		907				
		SPLIT-HALF RE	LIABILIT	Y STAT	ISTICS -			
		DTT - 0 765			SEMTT = 2 661			

10. Appendix 10.1.<u>Discrimination Index : r</u>

The discrimination index is a basic measure of the validity of an item. It is a measure of an item's ability to discriminate between those who scored high on the total test and those who scored low. Though there are several steps in its calculation, once computed, this index can be interpreted as an indication of the extent to which overall knowledge of the content area or mastery of the skills is related to the response on an item. Perhaps the most crucial validity standard for a test item is that whether a student got an item correct or not is due to their level of knowledge or ability and not due to something else such as chance or test bias.

Discrimination (R)	Meaning
1	Best
0.8-0.99	Very Good
0.6-0.79	Good
0.4-0.59	Moderate
0.2-0.39	Low
>0.19	No

10.2. Difficulty Index : P

Teachers produce a difficulty index for a test item by calculating the proportion of students in class who got an item correct. (The name of this index is counter-intuitive, as one actually gets a measure of how easy the item is, not the difficulty of the item.) The larger the proportion, the more students who have learned the content measured by the item.

Difficult (p)	Meaning
0.8-1	Very easy
0.6-1.8	easy
0.5-1.6	Nearly Easy
0.5	Moderate
0.4-0.49	Nearly difficult
0.2-0.39	Difficult
0-0.19	Too difficult

11. Contact Us

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