

APPENDIX

Treatment 1 (Experimental group)

Degrees of Comparison of Adjectives (tingkat perbandingan)

Underline the adjectives below !

1. I saw a good film last night .
2. Our house is quite big .
3. Ani is ugly .
4. Their expensive car broke yesterday .

Degrees of Comparison can be distinguished into three , they are : positive , comparative , and superlative .

I . Positive (tingkat setara)

Adalah : perbandingan yang menyatakan persamaan / perbedaan dua benda .

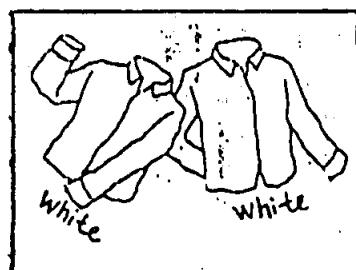
a . Persamaan :

1 . As ... as

Pola Kalimat :

Subject + predicate + as ... as + Subject + predicate

e.g :



My shirt is as white as yours .

2 . The same ... as

Pola Kalimat :

Subject + predicate + the same ... as + Subject + predicate

Subject + predicate + the same as + Subject + predicate

e.g : My shirt is the same colour as yours .

My shirt is the same as yours .

b . Perbedaan :

- Different from

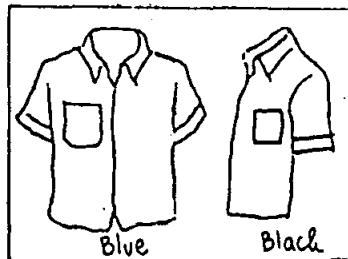
Pola Kalimat :

- Subject + predicate + different + Noun + from + Subject + predicate

- Subject + predicate + different from + Subject + predicate

- Subject + predicate + different

e.g :



My shirt is different in colour from yours .

My shirt is different from yours .

Our shirt's colour is different .

II . Comparative (*tingkat lebih*)

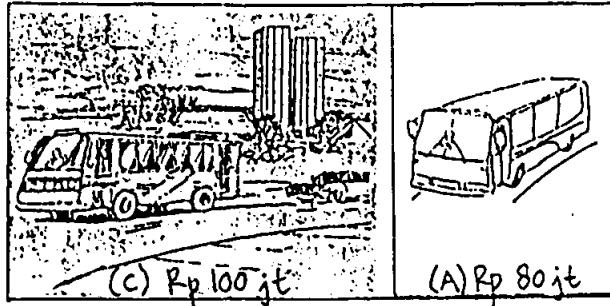
Adalah : perbandingan antara dua benda yang menggunakan akhiran -er atau awalan more .

Pola Kalimat :

Subject + predicate + comparative degree + than + Subject + predicate

a . - One syllable .

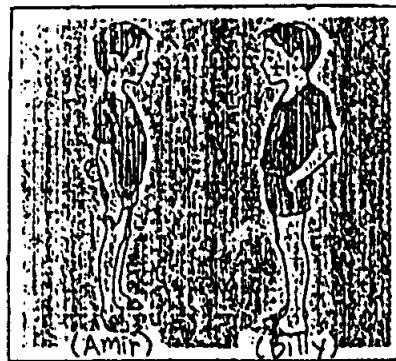
e.g :



The bus A is cheaper than the bus C . (cheap ----- cheaper)

- One syllable which ending with a consonant and preceded with a single vowel , for examples : big , red , fat ; double the final consonant and add -er .

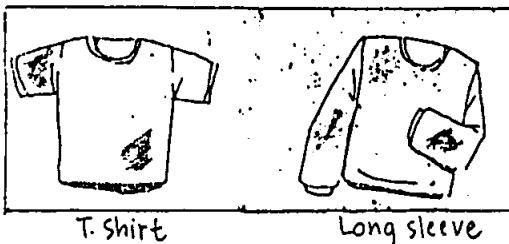
e.g :



Billy is bigger than Amir . (big ----- bigger)

b . - Two syllables which ending in -y , the -y becomes i and add -er .

e.g :



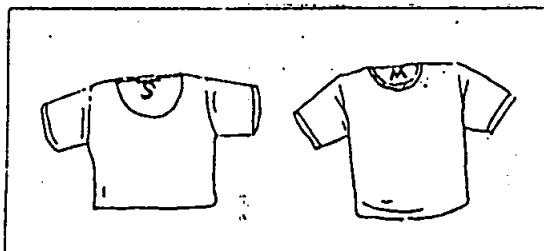
T. Shirt

Long sleeve

The long sleeves is dirtier than the T-shirt . (dirty ----- dirtier)

- Two syllables which ending with -e , add - r .

e.g :



The size M is larger than the size S . (large ----- larger)

c . More than two syllables : (Put more before the adjectives !)

e.g :



Lina looks more beautiful than Susi . (beautiful ----- more beautiful)

III . Superlative (tingkat paling)

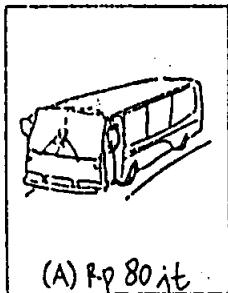
Adalah : perbandingan tiga benda / lebih yang menggunakan akhiran -est atau awalan most .

Pola Kalimat :

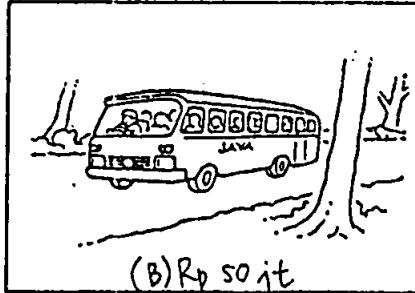
Subject + predicate + the + superlative degree + complement

a . - One syllable .

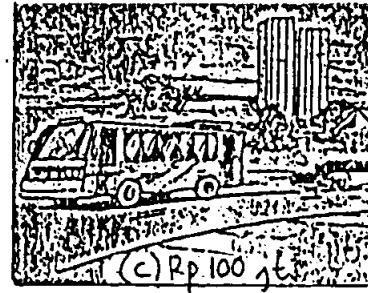
e.g :



(A) Rp 80 jt



(B) Rp 50 jt



(C) Rp 100 jt

The bus B is the cheapest of all types . (cheap ----- cheapest)

- One syllable which ending with a consonant and preceded with a single

vowel , for examples : big , red , fat ; double the final consonant and
add -est .

e.g :



Tommy is the biggest boy in the class . (big ----- biggest)

b . - Two syllables which ending in -y , the -y becomes i and add -est .

e.g :



The blouse is the dirtiest of all .

- Two syllables which ending with -e , add -st .

e.g :



The size L is the largest size in this store .

c . More than two syllables : (Put most before the adjectives !)

e.g :



Nany is the most beautiful girl in this office .(beautiful —— most
beautiful) .

SOME SHORT ADJECTIVES HAVE IRREGULAR COMPARATIVE AND SUPERLATIVE FORMS :

Positive

Comparative

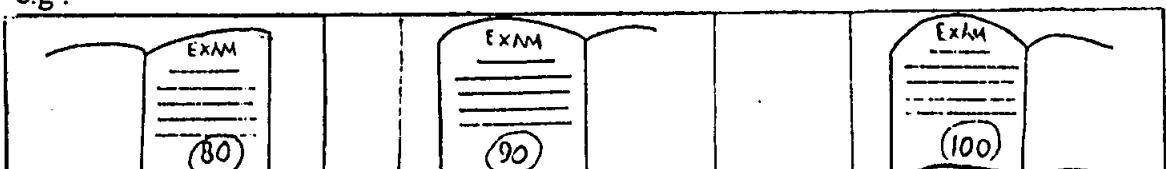
Superlative

Good

Better

Best

e.g :



Score 80 is good .

Score 90 is better
than 80 .

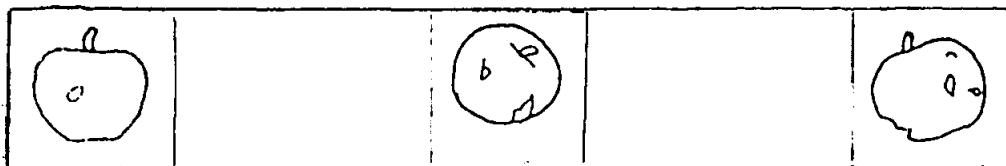
Score 100 is
the best .

Bad

e.g :

Worse

Worst



(A)

The apple A is bad.

(B)

The apple B is worse than the apple A.

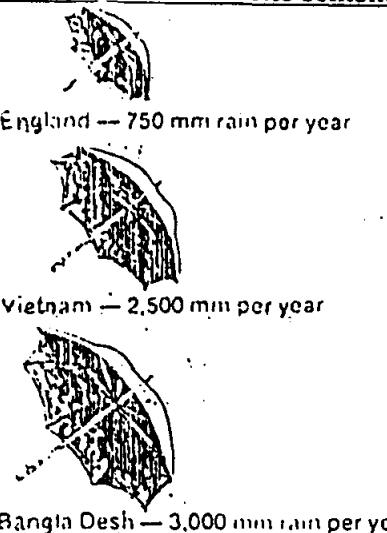
(C)

The apple C is the worst.

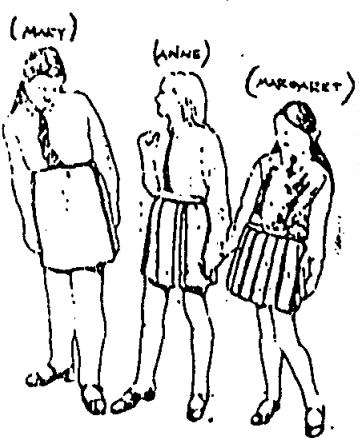
EXERCISES :

A. Look at the pictures and write sentences using the given adjectives !

1. (wet)



2. (pretty)



3. (attractive)



B. Complete each of the following statements using the suitable degrees of comparison from the adjectives given in brackets !

1. Herlia is as (clever) as Dewi .
2. The honey is sweet . The candy is sour . The honey is different (taste) from the candy .
3. Doni is (happy) than Rio .
4. Susi is the (thin) girl in the class .
5. Lion is the (dangerous) animal .
6. This pencil is long and that pencil is too . This pencil is the same (length) as that one .
7. Going by bus is (hot) than by aeroplane .
8. My sister is (diligent) than my brother .
9. My father is the (wise) man in our house .
10. This book is (good) than that book .

Treatment 1 (Control group)

Degrees of Comparison of Adjectives (tingkat perbandingan)

Underline the adjectives below !

1. I saw a good film last night .
2. Our house is quite big .
3. Ani is ugly .
4. Their expensive car broke yesterday .

Degrees of Comparison can be distinguished into three , they are : positive , comparative , and superlative .

I . Positive (tingkat setara)

Adalah : perbandingan yang menyatakan persamaan / perbedaan dua benda .

a . Persamaan :

- 1 . As ... as

Pola Kalimat :

Subject + predicate + as ... as + Subject + predicate

e.g : My shirt is as white as yours .

- 2 . The same ... as

Pola Kalimat :

Subject + predicate + the same ... as + Subject + predicate

Subject + predicate + the same as + Subject + predicate

e.g : My shirt is the same colour as yours .

My shirt is the same as yours .

b . Perbedaan :

- Different from

Pola Kalimat :

- **Subject + predicate + different + Noun + from + Subject + predicate**

- **Subject + predicate + different from + Subject + predicate**

- **Subject + predicate + different**

e.g : My shirt is different in colour from yours .

My shirt is different from yours .

Our bag's colour is different .

II . *Comparative (tingkat lebih)*

Adalah : perbandingan antara dua benda yang menggunakan akhiran -er atau

awalan more .

Pola Kalimat :

Subject + predicate + comparative degree + than + Subject + predicate

a . - One syllable .

e.g : The bus A is cheaper than the bus C . (cheap ---- cheaper)

- One syllable which ending with a consonant and preceded with a single vowel , for examples : big , red , fat ; double the final consonant and

add – er.

e.g : Billy is bigger than Amir . (big ---- bigger)

b . - Two syllables which ending in –y , the –y becomes i and add –er .

e.g : The long sleeves is dirtier than the T-shirt . (dirty ---- dirtier)

- Two syllables which ending with –e , add – r .

e.g : The size M is larger than the size S . (large ---- larger)

c . More than two syllables : (Put more before the adjectives !)

e.g : Lina looks more beautiful than Susi . (beautiful ---- more beautiful)

III . *Superlative (tingkat paling)*

Adalah : perbandingan tiga benda / lebih yang menggunakan akhiran –est atau awalan most .

Pola Kalimat :

Subject + predicate + the + superlative degree + complement

a . - One syllable .

e.g : The bus A is the cheapest of all types . (cheap ---- cheapest)

- One syllable which ending with a consonant and preceded with a single vowel , for examples : big , red , fat ; double the final consonant and add –est .

e.g : Tommy is the biggest boy in the class . (big ---- biggest)

b . - Two syllables which ending in –y , the –y becomes i and add –est .

e.g : The blouse is the dirtiest of all .

- Two syllables which ending with -e , add -st .

e.g : The size L is the largest size in this store .

c . More than two syllables : (Put most before the adjectives !)

e.g : Nany is the most beautiful girl in this office .(beautiful ----- most
beautiful) .

SOME SHORT ADJECTIVES HAVE IRREGULAR COMPARATIVE AND SUPERLATIVE FORMS :

Positive	Comparative	Superlative
Good	Better	Best
e.g : Score 80 is <u>good</u> .	Score 90 is <u>better</u> <u>than</u> 80 .	Score 100 is <u>the best</u> .
Bad	Worse	Worst
e.g : The apple A is <u>bad</u> .	The apple B is <u>worse</u> <u>than</u> the apple C .	The apple C is <u>the worst</u> .

EXERCISES :

A. I . Complete the COMPARISON TABLE BELOW!

No	Positive	Comparative	Superlative
1. (wet)			
2. (pretty)			
3. (attractive)		.	

II . Make the comparison sentences based on the adjectives above ! You may create those sentences based on what you see on your daily lives .

B. Complete each of the following statements using the suitable degrees of comparison from the adjectives given in brackets !

1 . Herlia is as (clever) as Dewi

2 . The honey is sweet . The candy is sour . The honey is different (taste) from the

candy.

3 . Doni is (happy) than Rio .

4 . Susi is the (thin) girl in the class .

5 . Lion is the (dangerous) animal .

6 . This pencil is long and that pencil is too . This pencil is the same (length) as that one.

7 . Going by bus is (hot) than by aeroplane .

8 . My sister is (diligent) than my brother .

9 . My father is the (wise) man in our house .

10. This book is (good) than that book .

Treatment 2 (Experimental group)

Degrees of Comparison of Adjectives (tingkat perbandingan)

Underline the adjectives below !

1. He has a happy life .
2. She looks so sad .
3. Budi is lazy .
4. My beautiful friends died yesterday .

Degrees of Comparison can be distinguished into three , they are : positive , comparative , and superlative .

I. Positive (tingkat setara)

Adalah : perbandingan yang menyatakan persamaan / perbedaan dua benda .

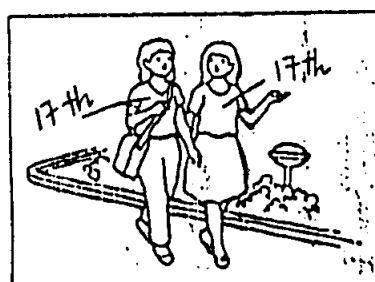
a . Persamaan :

1 . As ... as

Pola Kalimat :

Subject + predicate + as ... as + Subject + predicate

e.g :



You are as old as I am .

2. The same ... as

Pola Kalimat :

Subject + predicate + the same ... as + Subject + predicate

Subject + predicate + the same as + Subject + predicate

e.g : You are the same age as I am .

Your age is the same as mine .

b. Perbedaan :

- Different from

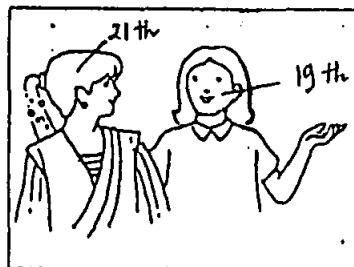
Pola Kalimat :

- **Subject + predicate + different + Noun + from + Subject + predicate**

- **Subject + predicate + different from + Subject + predicate**

- **Subject + predicate + different**

e.g :



You are different in age from I am .

Your age is different from mine .

Our age is different .

II . Comparative (*tingkat lebih*)

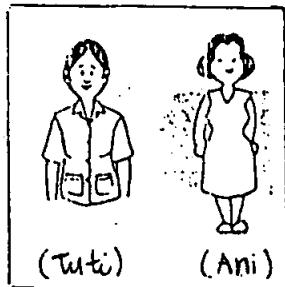
Adalah : perbandingan antara dua benda yang menggunakan akhiran -er atau awalan more .

Pola Kalimat :

Subject + predicate + comparative degree + than + Subject + predicate

a . - One syllable .

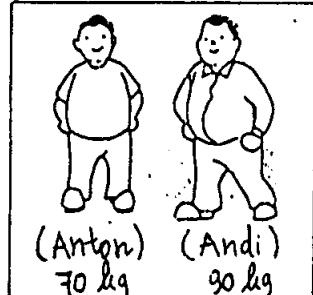
e.g :



Ani has longer hair than Tuti . (long ----- longer)

- One syllable which ending with a consonant and preceded with a single vowel , for examples : big , red , fat ; double the final consonant and add -er .

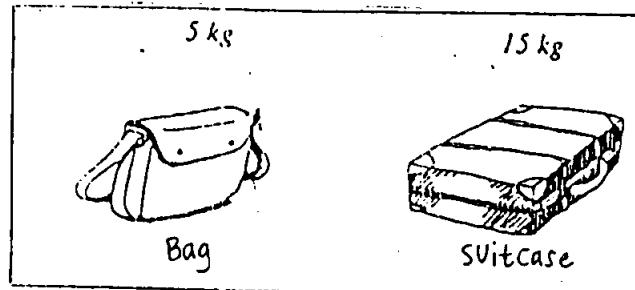
e.g :



Andi is fatter than Anton . (fat ----- fatter)

b . - Two syllables which ending in -y , the -y becomes i and add -er .

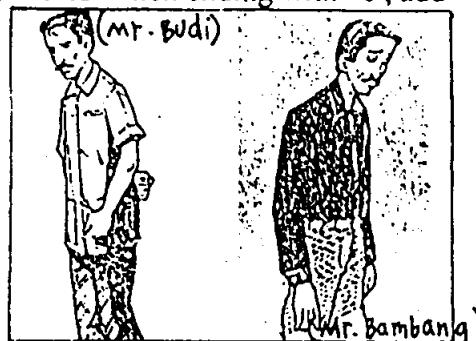
e.g :



The suitcase is heavier than the bag . (heavy ----- heavier)

- Two syllables which ending with -e , add - r .

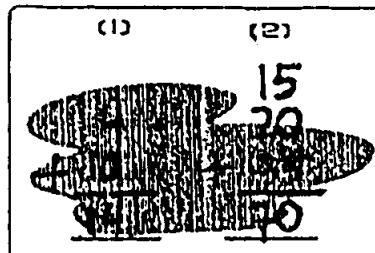
e.g :



Mr. Bambang looks paler than Mr. Budi . (pale ----- paler)

c . More than two syllables : (Put more before the adjectives !)

e.g :



The test (1) is more difficult than the test (2) . (difficult ----- more difficult)

III . Superlative (tingkat paling)

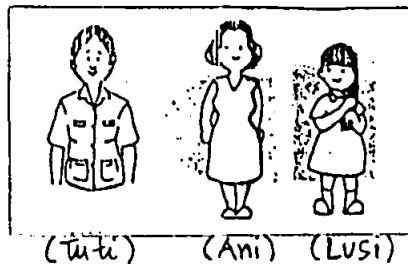
Adalah : perbandingan tiga benda / lebih yang menggunakan akhiran -est atau awalan most .

Pola Kalimat :

Subject + predicate + the + superlative degree + complement

a . - One syllable .

e.g :

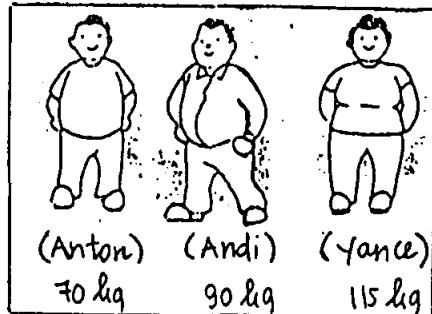


(Tuti) (Ani) (Lusi)

Lusi has the longest hair in our house . (long ---- longest)

- One syllable which ending with a consonant and preceded with a single vowel , for examples : big , red , fat ; double the final consonant and add -est .

e.g :

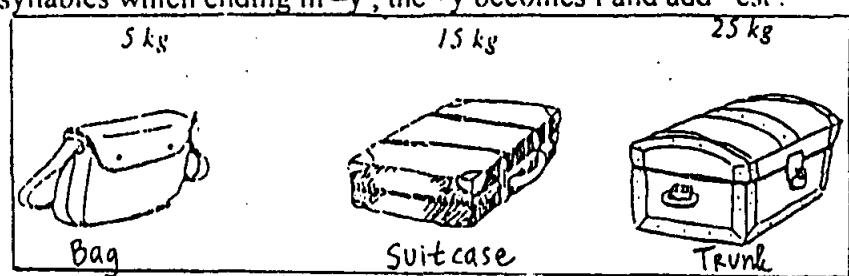


(Anton) (Andi) (Yance)
70 kg 90 kg 115 kg

Yance is the fattest girl in the class . (fat ----- fattest)

b . - Two syllables which ending in -y , the -y becomes i and add -est .

e.g :



5 kg

15 kg

25 kg

The trunk is the heaviest .(heavy ----- heaviest)

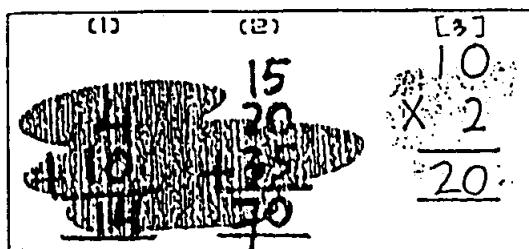
- Two syllables which ending with -e , add -st

e.g :



c . More than two syllables : (Put most before the adjectives !)

e.g :



SOME SHORT ADJECTIVES HAVE IRREGULAR COMPARATIVE AND SUPERLATIVE FORMS :

Positive

Comparative

Superlative

Little

e.g :



There is a little water
in the whisky bottle .

Less



There is less water in the
gin bottle *than* whisky
bottle .

Least



There is the least
water in the syrup
bottle .

Many
e.g :

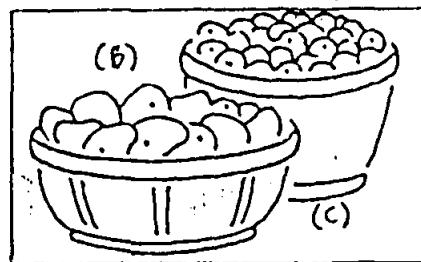


Basket A has many apples .

More

Basket B has more apples than basket A .

Most

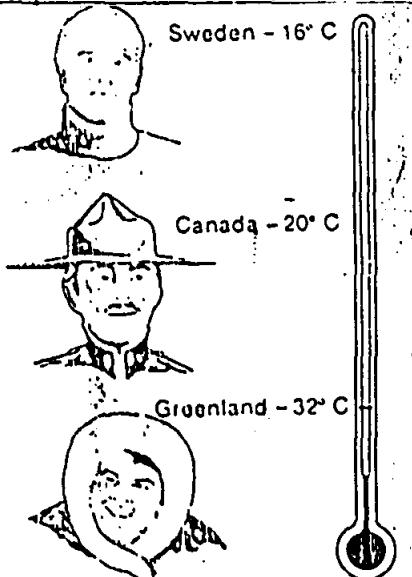


Basket C has the most apples .

EXERCISES :

A. Look at the pictures and write sentences using the given adjectives !

1. (cold)



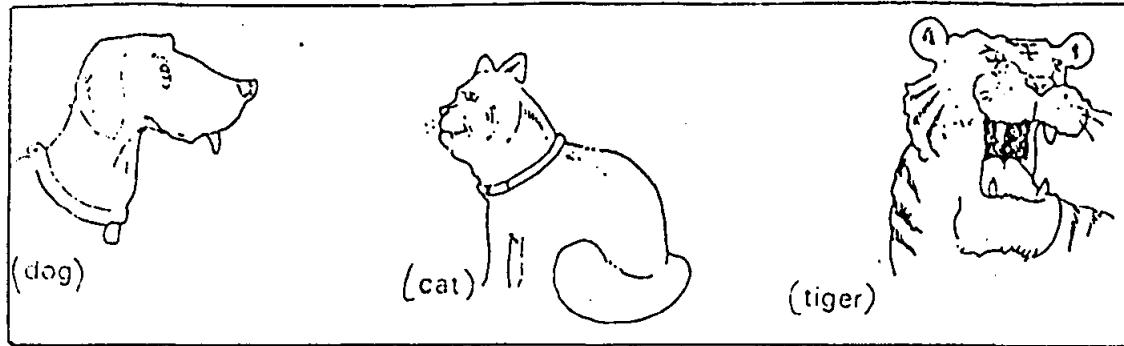
2. (easy)

- Selamat pagi

- GOOD MORNING

- 煙酒樓

3. (frightened)



B. Complete each of the following statements using the suitable degrees of comparison from the adjectives given in brackets !

1. These umbrellas are reddish and those ones are too . These umbrellas are the same (colour) as those ones .
2. Achmad is 170 cm tall , Ari is 150 cm tall . Achmad is (tall) than Ari .
3. Bali is (interesting) than Malang .
4. Budi is the (busy) person in the world .
5. This condition is the (bad) in this month .
6. My uncle is as (kind) as my father .
7. I spoke English . She spoke Mandarin . I spoke different (language) from her .
8. Nina is (nice) than Ani .
9. The air ticket is the (expensive) of the other transportations .
10. Dolphin is the (smart) fish .

Treatment 2 (Control group)

Degrees of Comparison of Adjectives (tingkat perbandingan)

Underline the adjectives below !

1. He has a happy life .
2. She looks so sad .
3. Budi is lazy .
4. My beautiful friends died yesterday .

Degrees of Comparison can be distinguished into three , they are : positive , comparative , and superlative .

I . Positive (tingkat setara)

Adalah : perbandingan yang menyatakan persamaan / perbedaan dua benda .

a . Persamaan :

1 . As ... as

Pola Kalimat :

Subject + predicate + as ... as + Subject + predicate

e.g : You are as old as I am .

2 . The same ... as

Pola Kalimat :

Subject + predicate + the same ... as + Subject + predicate

Subject + predicate + the same as + Subject + predicate

e.g : You are the same age as I am .

Your age is the same as mine .

b . Perbedaan :

- Different from

Pola Kalimat :

- Subject + predicate + different + Noun + from + Subject + predicate

- Subject + predicate + different from + Subject + predicate

- Subject + predicate + different

e.g : You are different in age from I am .

Your age is different from mine .

Our age is different .

II . Comparative (*tingkat lebih*)

Adalah : perbandingan antara dua benda yang menggunakan akhiran -er atau

awalan more .

Pola Kalimat :

Subject + predicate + comparative degree + than + Subject + predicate

a . - One syllable .

e.g : Ani has longer hair *than* Tuti . (long ----- longer)

- One syllable which ending with a consonant and preceded with a single vowel , for examples : big , red , fat ; double the final consonant and add -er .

e.g : Andi is fatter than Anton . (fat ---- fatter)

b . - Two syllables which ending in -y , the -y becomes i and add -er .

e.g : The suitcase is heavier than the bag . (heavy ---- heavier)

- Two syllables which ending with -e , add - r .

e.g : Mr. Bambang looks paler than Mr. Budi . (pale ---- paler)

c . More than two syllables : (Put more before the adjectives !)

e.g : The test (1) is more difficult than the test (2) . (difficult ---- more difficult)

III . *Superlative (tingkat paling)*

Adalah : perbandingan tiga benda / lebih yang menggunakan akhiran -est atau awalan most .

Pola Kalimat :

Subject + predicate + the + superlative degree + complement

a . - One syllable .

e.g : Lusi has the longest hair in our house . (long ---- longest)

- One syllable which ending with a consonant and preceded with a single vowel , for examples : big , red , fat ; double the final consonant and add - est .

e.g : Yance is the fattest girl in the class . (fat ---- fattest)

b . - Two syllables which ending in -y , the -y becomes i and add -est .

e.g : The trunk is the heaviest . (heavy ---- heaviest)

- Two syllables which ending with -e , add -st .

e.g : Mr. Bakri is the palest of them . (pale ----- palest)

c . More than two syllables : (Put most before the adjectives !)

e.g : The test (3) is the most difficult . (difficult ----- most difficult) .

SOME SHORT ADJECTIVES HAVE IRREGULAR COMPARATIVE AND SUPERLATIVE FORMS :

Positive	Comparative	Superlative
Little	Less	Least
e.g : There is a <u>little</u> water in the whisky bottle .	There is <u>less</u> water in the gin bottle <i>than</i> whisky bottle .	There is <i>the least</i> water in the syrup bottle .
Many	More	Most
e.g : Basket A has <u>many</u> apples .	Basket B has <u>more</u> apples <i>than</i> basket A .	Basket C has <i>the</i> <u>most</u> apples .

EXERCISES :

A. I . Complete the COMPARISON TABLE BELOW !

No	Positive	Comparative	Superlative
1. (cold)			
2. (easy)			
3. (frightened)			

II . Make the comparison sentences based on the adjectives above . You may create those sentences based on what you see on your daily lives !

B. Complete each of the following statements using the suitable degrees of comparison from the adjectives given in brackets !

1 . These umbrellas are reddish and those ones are too . These umbrellas are the same (colour) as those ones .

- 2 . Achmad is 170 cm tall , Ari is 150 cm tall . Achmad is (tall) than Ari .
- 3 . Bali is (interesting) than Malang .
- 4 . Budi is the (busy) person in the world .
- 5 . This condition is the (bad) in this month .
- 6 . My uncle is as (kind) as my father .
- 7 . I spoke English . She spoke Mandarin . I spoke different (language) from her .
- 8 . Nina is (nice) than Ani .
- 9 . The air ticket is the (expensive) of the other transportations .
10. Dolphin is the (smart) fish .

Treatment 3 (Experimental group)

Degrees of Comparison of Adjectives (tingkat perbandingan)

Underline the adjectives below !

1. What a wonderful life ?
2. He is very fat .
3. Ari is funny .
4. Our complicated problem had solved yesterday .

Degrees of Comparison can be distinguished into three , they are : positive , comparative , and superlative .

I . *Positive (tingkat setara)*

Adalah : perbandingan yang menyatakan persamaan / perbedaan dua benda .

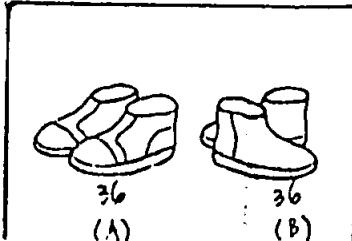
a . Persamaan :

1 . As ... as

Pola Kalimat :

Subject + predicate + as ... as + Subject + predicate

e.g :



My shoes is as small as yours .

2 . The same ... as

Pola Kalimat :

Subject + predicate + **the same ... as** + Subject + predicate

Subject + predicate + **the same as** + Subject + predicate

e.g : My shoes is the same size as yours .

My shoes is the same as yours .

b . Perbedaan :

- Different from

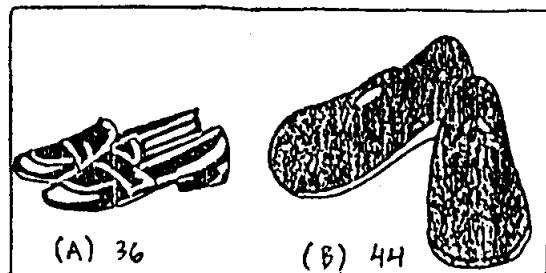
Pola Kalimat :

- Subject + predicate + different + Noun + from + Subject + predicate

- Subject + predicate + different from + Subject + predicate

- Subject + predicate + different

e.g :



My shoes is different in size from yours .

My shoes' size is different from yours .

Our shoes' size is different .

II. Comparative (*tingkat lebih*)

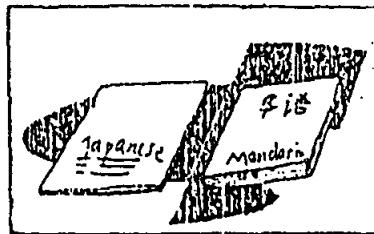
Adalah : perbandingan antara dua benda yang menggunakan akhiran -er atau awalan more .

Pola Kalimat :

Subject + predicate + comparative degree + than + Subject + predicate

a . - One syllable .

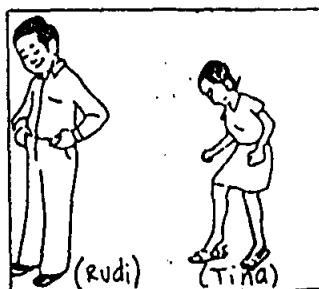
e.g :



The Mandarin book is thicker than the Japanese book . (thick ----- thicker)

- One syllable which ending with a consonant and preceded with a single vowel, for examples : big , red , fat ; double the final consonant and add -er .

e.g :



Tina is thinner than Rudi . (thin ----- thinner)

b . - Two syllables which ending in -y , the -y becomes i and add -er .

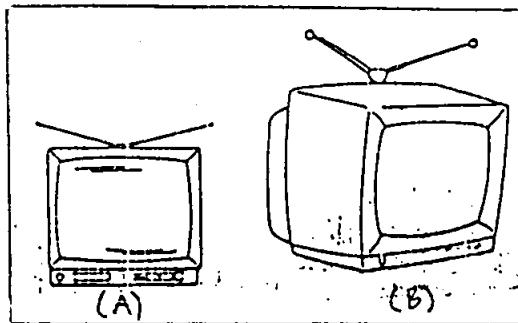
e.g :



Andre is uglier than Santi . (ugly ----- uglier)

- Two syllables which ending with -e , add - r .

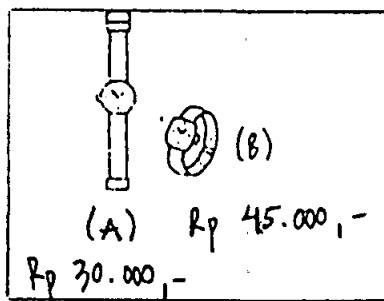
e.g :



The TV B is wider than the TV A . (wide ----- wider)

c . More than two syllables : (Put more before the adjectives !)

e.g :



The wrist-watch B is more expensive than the wrist-watch A .

(expensive ----- more expensive)

III . Superlative (tingkat paling)

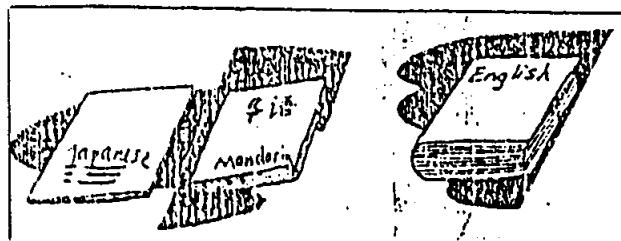
Adalah : perbandingan tiga benda / lebih yang menggunakan akhiran -est atau awalan most .

Pola Kalimat :

Subject + predicate + the + superlative degree + complement

a . - One syllable .

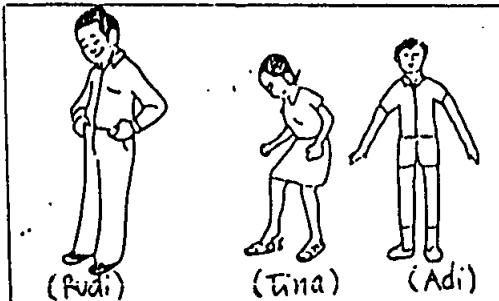
e.g :



The English book is the tickest . (thick ----- thickest)

- One syllable which ending with a consonant and preceded with a single vowel , for examples : big , red , fat ; double the final consonant and add -est .

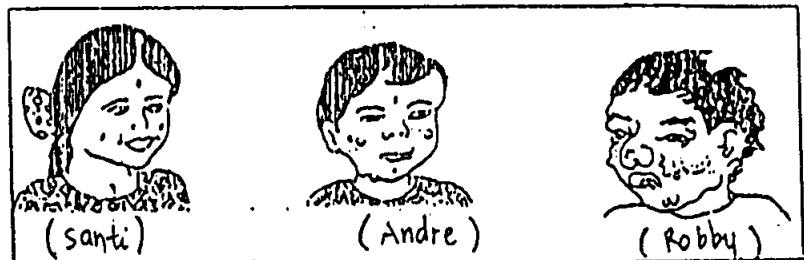
e.g :



Adi is the thinnest in the house . (thin ----- thinnest)

b . - Two syllables which ending in -y , the -y becomes i and add -est .

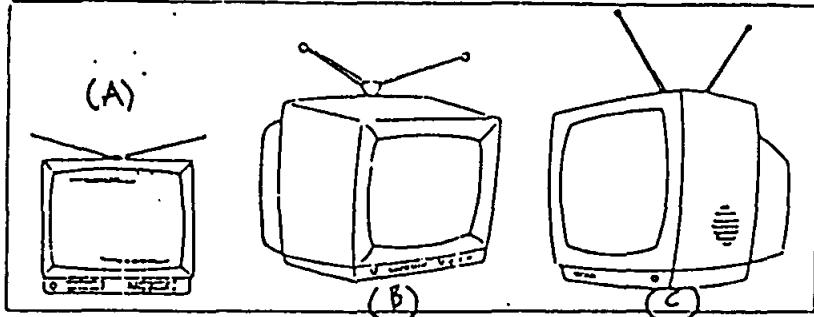
e.g :



Robby is the ugliest . (ugly ----- ugliest)

- Two syllables which ending with -e , add -st .

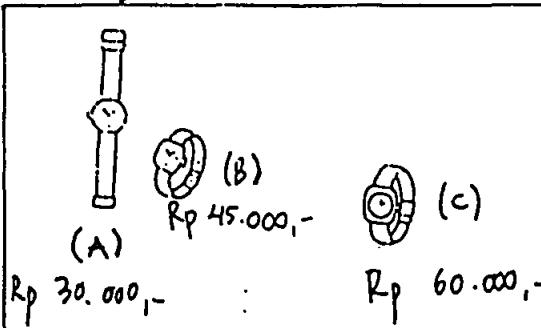
e.g :



The TV C is the widest . (wide ----- widest)

c . More than two syllables : (Put most before the adjectives !)

e.g :



The wrist-watch C is the most expensive of all . (expensive ----- most expensive)

SOME SHORT ADJECTIVES HAVE IRREGULAR COMPARATIVE AND SUPERLATIVE FORMS :

Positive

Late
e.g :



The lesson begins at 7.00 O'clock .

(7.05) Tom is late today .

Comparative

Latter



(7.10) Jim is latter than Tom .

Superlative

Latest



(7.15) Sanni is the latest .

Far (jarak)
e.g :

Farther

Farthest

500 Km 1000 Km 1500 Km
SURABAYA ----- SIDOARJO ----- TRETES ----- MALANG

Surabaya -Sidoarjo is
far .

Surabaya-Tretes is farther .
than Surabaya-Sidoarjo .

Surabaya-Malang is
the farthest .

EXERCISES :

A. Look at the pictures and write sentences using the given adjectives !

1. (high)

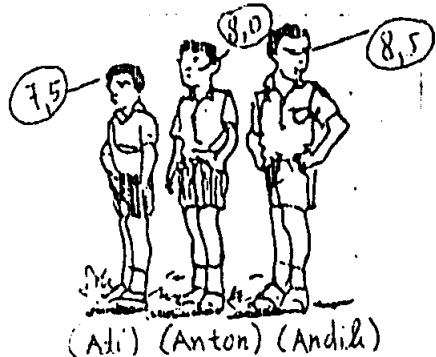
Mount Everest — 8848 metres

Mont Blanc — 4810 metres

Mount Fuji — 3776 metres

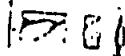


2. (clever)



3. (interesting)

(A)



(c)



B. Complete each of the following statements using the suitable degree of comparison from the adjectives given in brackets !

1. His pencil is as (sharp) as hers .
2. My pen is long . Your pen is short . My pen is different (length) from your pen .
3. Ani is (lazy) than Nina .
4. Giraffe is the (tall) animal .
5. To foreign tourists , ' Kuta ' Beach in Bali is the (popular) .
6. My face is oval and your face is too . My face is the same (shape) as yours .
7. Syrup tastes (sweet) than honey .
8. An airplane is (comfortable) than a train .
9. He looks the (happy) person in the world .
10. Lina ate (little) food than Lani .

Treatment 3 (control group)

Degrees of Comparison of Adjectives (tingkat perbandingan)

Underline the adjectives below !

1. What a wonderful life ?
2. He is very fat .
3. Ari is funny .
4. Our complicated problem had solved yesterday .

Degrees of Comparison can be distinguished into three , they are : positive , comparative , and superlative .

I . Positive (tingkat setara)

Adalah : perbandingan yang menyatakan persamaan / perbedaan dua benda .

a . Persamaan :

1 . As ... as

Pola Kalimat :

Subject + predicate + as ... as + Subject + predicate

e.g : My shoes is as small as yours .

2 . The same ... as

Pola Kalimat :

Subject + predicate + the same ... as + Subject + predicate

Subject + predicate + the same as + Subject + predicate

e.g : My shoes is the same size as yours .

My shoes is the same as yours .

b . Perbedaan :

- Different from

Pola Kalimat :

- **Subject + predicate + different + Noun + from + Subject + predicate**

- **Subject + predicate + different from + Subject + predicate**

- **Subject + predicate + different**

e.g : My shoes is different in size from yours .

My shoes' size is different from yours .

Our shoes' size is different .

II . *Comparative (tingkat lebih)*

Adalah : perbandingan antara dua benda yang menggunakan akhiran -er atau awalan more .

Pola Kalimat :

Subject + predicate + comparative degree + than + Subject + predicate

a . - One syllable .

e.g : The Mandarin book is thicker than the Japanese book . (thick ----

thicker)

- One syllable which ending with a consonant and preceded with a single vowel,
for examples : big , red , fat ; double the final consonant and add –er .

e.g : Tina is thinner than Rudi . (thin ---- thinner)

b . - Two syllables which ending in –y , the –y becomes i and add –er .

e.g : Andre is uglier than Santi . (ugly ---- uglier)

- Two syllables which ending with –e , add – r .

e.g : The TV B is wider than the TV A . (wide ---- wider)

c . More than two syllables : (Put more before the adjectives !)

e.g : The wrist-watch B is more expensive than the wrist-watch A .

(expensive ----- more expensive)

III . *Superlative (tingkat paling)*

Adalah : perbandingan tiga benda / lebih yang menggunakan akhiran –est atau

awalan most .

Pola Kalimat :

Subject + predicate + the + superlative degree + complement

a . - One syllable .

e.g : The English book is the tickest . (thick ---- thickest)

- One syllable which ending with a consonant and preceded with a single vowel , for examples : big , red , fat ; double the final consonant and add –est .

e.g : Adi is the thinnest in the house . (thin ---- thinnest)

b . - Two syllables which ending in -y , the -y becomes i and add -est .

e.g : Robby is the ugliest . (ugly ---- ugliest)

- Two syllables which ending with -e , add -st .

e.g : The TV C is the widest . (wide ---- widest)

c . More than two syllables : (Put most before the adjectives !)

e.g : The wrist-watch C is the most expensive of all . (expensive ---- most expensive)

SOME SHORT ADJECTIVES HAVE IRREGULAR COMPARATIVE AND SUPERLATIVE FORMS :

Positive	Comparative	Superlative
----------	-------------	-------------

Late	Latter	Latest
------	--------	--------

e.g :

The lesson begins at 7.00 O'clock .

(7.05) Tom is late today . (7.10) Jim is latter than Tom . (7.15) Sanni is the latest .

Far (jarak)	Farther	Farthest
---------------	---------	----------

e.g :

Surabaya -Sidoarjo is far .

Surabaya-Tretes is farther . than Surabaya-Sidoarjo .

Surabaya-Malang is the farthest .

EXERCISES:

A. I . Complete the COMPARISON TABLE BELOW !

No	Positive	Comparative	Superlative
1. (high)			
2. (clever)			
3. (interesting)			

II . Make the comparison sentences based on the adjectives above ! You may create those sentences based on what you see on your daily lives .

B. Complete each of the following statements using the suitable degree of comparison from the adjectives given in brackets !

- 1 . His pencil is as (sharp) as hers .
- 2 . My pen is long . Your pen is short . My pen is different (length) from your pen .
- 3 . Ani is (lazy) than Nina .
- 4 . Giraffe is the (tall) animal .
- 5 . To foreign tourists , ‘ Kuta ‘ Beach in Bali is the (popular) .
- 6 . My face is oval and your face is too . My face is the same (shape) as yours .
- 7 . Syrup tastes (sweet) than honey .
- 8 . An airplane is (comfortable) than a train .
- 9 . He looks the (happy) person in the world .
10. Lina ate (little) food than Lani .

I . Complete each of the following statements using the suitable degrees of comparison from the adjectives given in brackets !

- 1 . This pen is as (expensive) as that one .
- 2 . Town is (small) than city .
- 3 . And what is the (long) river in the world ?
- 4 . She is the same (intelligent) as the genius .
- 5 . My father is (sad) than mother when they heard the bad news .
- 6 . Tino's book is the (thin) of all .
- 7 . My book is the same (colour) as yours .
- 8 . A . $10 + 10 + 5 = 25$.
B . $10 + 10 = 20$.
B is (easy) than A .
- 9 . Kursa eats two plates of rice everyday . Gembul eats three plates of rice and Komat eats four plates . So Kamat is the (greedy) of all .
10. His shirt is different in (size) from hers .
11. That lake is (wide) than this lake .
12. Farida is the (nice) girl in my class .
13. Travelling abroad is much (interesting) than just staying at home .
14. What is the (difficult) subject , do you think ?
15. The plane flies fast and the helicopter flies fast too .

The plane flies as (fast) as the helicopter .
16. This is the (complicated) formula that I've ever seen .
17. Put (much) sugar in my tea , please .
18. The reporter wrote the (good) report to his boss .
19. The boy had a (bad) headache than his friend .

20. Mr. Robert is the (late) person comes in this meeting .

II . Give a cross (X) to show the right choice !

KEY ANSWERS:

- 1.1. expensive
 2. smaller
 3. longest
 4. intelligent
 5. sadder
 6. thinnest
 7. colour
 8. easier
 9. greediest
 10. size
 11. wider
 12. nicest
 13. more interesting
 14. most difficult
 15. fast
 16. most complicated
 17. more
 18. best
 19. worse
 20. lattest

- | | |
|---------|-------|
| II.1. d | 6. c |
| 2. b | 7. b |
| 3. d | 8. b |
| 4. c | 9. b |
| 5. b | 10. d |

Calculation For Two Means Test

NO.	x _A	x ² _A	x _B	x ² _B
1	4.4	19.36	2.7	7.29
2	5.6	31.36	3.5	12.25
3	8.5	72.25	2.3	5.29
4	7.3	53.29	5.5	30.25
5	2.6	6.76	4.4	19.36
6	5.0	25.00	5.1	26.01
7	3.3	10.89	6.3	39.69
8	4.7	22.09	3.1	9.61
9	3.4	11.56	4.4	19.36
10	4.7	22.09	6.4	40.96
11	4.0	16.00	2.3	5.29
12	1.6	2.56	4.1	16.81
13	2.4	5.76	7.0	49.00
14	5.1	26.01	4.5	20.25
15	3.2	10.24	3.7	13.69
16	3.3	10.89	5.2	27.04
17	3.8	14.44	4.0	16.00
18	5.8	33.64	1.6	2.56
19	3.8	14.44	5.8	33.64
20	4.6	21.16	8.6	73.96
21	2.1	4.41	5.5	30.25
22	3.4	11.56	2.9	8.41
23	7.1	50.41	2.8	7.84
24	3.5	12.25	5.2	27.04
25	2.2	4.84	2.0	4.00
26	2.6	6.76	7.3	53.29
27	2.8	7.84	6.9	47.61
28	8.7	75.69	2.8	7.84
29	2.4	5.76	6.1	37.21
30	2.2	4.84	5.3	28.09
31	2.2	4.84	5.9	34.81
32	6.0	36.00	3.5	12.25
33	5.9	34.81	3.1	9.61
34	2.8	7.84	2.8	7.84
35	4.3	18.49	5.7	32.49
36	3.4	11.56	7.3	53.29
37	5.6	31.36	4.4	19.36
38	3.4	11.56	2.0	4.00
39	8.8	77.44	4.4	19.36
TOTAL	166.5	848.05	176.4	912.90
n	39	-	39	-
Mean	4.269230		4.523076	
SD	1.900298		1.739852	

Test of Hypothesis :

1. $H_0 : m_A = m_B$, there is no significant difference between group A and group B.
 $H_a : m_A \neq m_B$, there is significant difference between group A and group B.

2. t-test, where $dk. = n_A + n_B - 2 = 76$
 $t(.05/2) = 2000$

3. Calculation for t-observation (to) :

A : Class IIA

====

$$\bar{x} = \frac{\sum x}{n} = 4.269230 ; n = 39$$

$$s = \sqrt{\frac{n(\sum x^2) - (\sum x)^2}{n(n-1)}} = 1.900298$$

B : Class IIB

====

$$\bar{x} = \frac{\sum x}{n} = 4.523076 ; n = 39$$

$$s = \sqrt{\frac{n(\sum x^2) - (\sum x)^2}{n(n-1)}} = 1.739852$$

$$\bar{x}_A - \bar{x}_B$$

$$t_{\text{obs}} = \frac{\bar{x}_A - \bar{x}_B}{\sqrt{\frac{(n_A-1)s^2_A + (n_B-1)s^2_B}{n_A + n_B - 2} \left(\frac{1}{n_A} + \frac{1}{n_B} \right)}} = -0.615$$

$$\sqrt{\frac{(n_A-1)s^2_A + (n_B-1)s^2_B}{n_A + n_B - 2} \left(\frac{1}{n_A} + \frac{1}{n_B} \right)}$$

4. CONCLUSION :

Because / t observation / = 0.615286 < $t(.05/2)$ so H_0 is accepted.

Hence, we can conclude that there is no significant difference between group A and group B.

Calculation For Two Means Test

NO.	x _A	x ² _A	x _C	x ² _C
1	4.4	19.36	2.6	6.76
2	5.6	31.36	3.4	11.56
3	8.5	72.25	5.0	25.00
4	7.3	53.29	4.8	23.04
5	2.6	6.76	6.3	39.69
6	5.0	25.00	6.7	44.89
7	3.8	10.89	7.7	59.29
8	4.7	22.09	4.4	19.36
9	3.4	11.56	5.4	29.16
10	4.7	22.09	3.0	9.00
11	4.0	16.00	4.9	24.01
12	1.6	2.56	3.4	11.56
13	2.4	5.76	3.2	10.24
14	5.1	26.01	5.0	25.00
15	3.2	10.24	6.5	42.25
16	3.3	10.89	5.3	28.09
17	3.8	14.44	3.4	11.56
18	5.8	33.64	2.3	5.29
19	3.8	14.44	5.1	26.01
20	4.6	21.16	4.0	16.00
21	2.1	4.41	4.7	22.09
22	3.4	11.56	2.6	6.76
23	7.1	50.41	6.0	36.00
24	3.5	12.25	3.4	11.56
25	2.2	4.84	4.2	17.64
26	2.6	6.76	6.9	47.61
27	2.8	7.84	4.8	23.04
28	8.7	75.69	4.6	21.16
29	2.4	5.76	7.0	49.00
30	2.2	4.84	2.7	7.29
31	2.2	4.84	4.4	19.36
32	6.0	36.00	4.4	19.36
33	5.9	34.81	2.8	7.84
34	2.8	7.84	4.2	17.64
35	4.3	18.49	1.0	1.00
36	3.4	11.56	3.9	15.21
37	5.6	31.36	8.3	68.89
38	3.4	11.56	2.5	6.25
39	8.8	77.44	4.1	16.81
TOTAL	166.5	848.05	174.9	882.27
n	39	-	39	-
Mean	4.269230		4.484615	
SD	1.900298		1.605178	

Test of Hypothesis :

1. $H_0 : m_A = m_C$, there is no significant difference between group A and group C.
 $H_a : m_A \neq m_C$, there is significant difference between group A and group C.

2. t-test, where $d.f. = n_A + n_C - 2 = 76$
 $t(.05/2) = 2000$

3. Calculation for t-observation (to) :

$$A : \text{Class IIA}$$

$$\bar{x} = \frac{\sum x}{n} = 4.269230 ; n = 39$$

$$s = \sqrt{\frac{\sum (x^2 - (\bar{x})^2)}{n(n-1)}} = 1.900298$$

$$C : \text{Class IIC}$$

$$\bar{x} = \frac{\sum x}{n} = 4.484615 ; n = 39$$

$$s = \sqrt{\frac{\sum (x^2 - (\bar{x})^2)}{n(n-1)}} = 1.605178$$

$$t_o = \frac{\bar{x}_A - \bar{x}_C}{\sqrt{\frac{(n_A-1)s^2_A + (n_C-1)s^2_C}{n_A + n_C - 2} \left(\frac{1}{n_A} + \frac{1}{n_C} \right)}} = -0.541$$

4. CONCLUSION :

Because / t observation / = 0.540730 < $t(.05/2)$ so H_0 is accepted.
Hence, we can conclude that there is no significant difference between group A and group C.

Calculation For Two Means Test

NO.	$\times\theta$	$\times^z\theta$	\timesC	\times^zC
1	2.7	7.29	2.6	6.76
2	3.5	12.25	3.4	11.56
3	2.3	5.29	5.0	25.00
4	5.5	30.25	4.8	23.04
5	4.4	19.36	6.3	39.69
6	5.1	26.01	6.7	44.89
7	6.3	39.69	7.7	59.29
8	3.1	9.61	4.4	19.36
9	4.4	19.36	5.4	29.16
10	6.4	40.96	3.0	9.00
11	2.3	5.29	4.9	24.01
12	4.1	16.81	3.4	11.56
13	7.0	49.00	3.2	10.24
14	4.5	20.25	5.0	25.00
15	3.7	13.69	6.5	42.25
16	5.2	27.04	5.3	28.09
17	4.0	16.00	3.4	11.56
18	1.6	2.56	2.3	5.29
19	5.8	33.64	5.1	26.01
20	8.6	73.96	4.0	16.00
21	5.5	30.25	4.7	22.09
22	2.9	8.41	2.6	6.76
23	2.8	7.84	6.0	36.00
24	5.2	27.04	3.4	11.56
25	2.0	4.00	4.2	17.64
26	7.3	53.29	6.9	47.61
27	6.9	47.61	4.8	23.04
28	2.8	7.84	4.6	21.16
29	6.1	37.21	7.0	49.00
30	5.3	28.09	2.7	7.29
31	5.9	34.81	4.4	19.36
32	3.5	12.25	4.4	19.36
33	3.1	9.61	2.8	7.84
34	2.8	7.84	4.2	17.64
35	5.7	32.49	1.0	1.00
36	7.3	53.29	3.9	13.21
37	4.4	19.36	8.3	68.89
38	2.0	4.00	2.5	6.25
39	4.4	19.36	4.1	16.81
TOTAL	176.4	912.90	174.9	882.27
n	39	-	39	-
Mean	4.523076		4.484615	
SD	1.739852		1.605178	

Test of Hypothesis :

1. $H_0 : m_B = m_C$, there is no significant difference between group B and group C.
 $H_a : m_B \neq m_C$, there is significant difference between group B and group C.

2. t-test, where $dk. = n_B + n_C - 2 = 76$
 $t(.05/2) = 2000$

3. Calculation for t-observation (to) :

$$B : \text{Class IIB}$$

$$\bar{x} = \frac{\sum x}{n} = 4.523076 ; n = 39$$

$$s = \sqrt{\frac{\sum (x^2 - (\bar{x})^2)}{n(n-1)}} = 1.739852$$

$$C : \text{Class IIC}$$

$$\bar{x} = \frac{\sum x}{n} = 4.484615 ; n = 39$$

$$s = \sqrt{\frac{\sum (x^2 - (\bar{x})^2)}{n(n-1)}} = 1.605178$$

$$t_{\text{obs}} = \frac{\bar{x}_B - \bar{x}_C}{\sqrt{\frac{(n_B-1)s^2_B + (n_C-1)s^2_C}{n_B + n_C - 2} \left(\frac{1}{n_B} + \frac{1}{n_C} \right)}}}$$

4. CONCLUSION :

Because /t observation/ = 0.101466 < t(.05/2) so H_0 is accepted.

Hence, we can conclude that there is no significant difference between group B and group C.

The Try-out results

(Class II B)

SUBJECT NUMBER	ITEM															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1
2	0	1	0	0	1	0	1	0	0	1	1	1	1	0	0	1
3	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0
4	1	1	0	1	1	0	1	1	0	1	1	0	1	1	1	1
5	0	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1
6	1	0	0	1	0	0	1	0	1	1	0	0	0	1	1	0
7	0	1	0	0	1	0	1	0	0	1	1	1	1	1	1	1
8	0	0	1	1	0	1	0	0	1	0	0	0	0	1	1	0
9	1	1	1	0	1	1	1	0	0	1	1	1	1	0	1	1
10	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	0
11	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1
12	0	1	0	0	1	0	0	0	1	0	0	0	0	0	1	0
13	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	1	1	0	0	1	0	1	0	0	1	1	1	1	1	0	1
15	1	1	0	0	0	0	1	0	0	0	0	1	1	1	0	1
16	1	1	0	0	1	0	1	0	0	1	1	1	1	1	0	1
17	0	0	1	1	1	1	1	1	0	1	0	1	0	1	1	1
18	1	1	0	0	1	0	1	0	0	1	1	1	1	0	0	1
19	0	1	1	0	0	1	0	0	1	1	1	0	1	1	0	1
20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	1	1	0	0	0	0	0	0	1	1	1	0	1	1	1	1
22	1	0	1	1	0	1	1	0	0	1	1	1	1	1	0	1
23	1	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0
24	0	1	0	0	1	0	0	0	0	0	0	1	1	1	0	1
25	1	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0
26	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27	1	1	0	0	1	1	1	1	1	1	1	1	0	1	1	1
28	1	0	1	1	1	1	1	1	0	1	1	1	0	1	0	1
29	1	1	1	1	1	1	1	0	0	1	1	0	1	1	1	1
30	1	1	0	1	1	0	1	1	1	0	1	1	1	1	1	0
31	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0	1
32	0	0	1	1	0	1	1	0	1	1	1	1	0	0	0	0
33	0	1	1	0	0	0	1	1	0	1	0	1	0	0	1	0
34	1	1	1	0	1	1	1	1	0	0	1	0	1	0	0	1
35	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
36	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
37	0	1	1	0	1	1	0	1	1	0	1	1	1	0	0	1
38	0	0	1	0	0	1	0	0	0	0	0	0	0	1	1	0

17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL SCORE
0	0	1	0	0	1	1	1	0	1	1	1	1	1	23
1	0	0	0	1	1	1	0	1	1	1	1	1	1	18
0	0	0	0	0	1	1	0	1	1	0	1	0	1	9
0	0	1	1	1	1	1	1	1	1	0	1	0	1	22
0	0	0	0	0	1	1	1	1	1	0	1	1	1	21
1	1	1	1	0	1	1	1	1	1	1	1	1	1	20
1	1	1	1	1	1	1	1	1	1	1	1	0	1	23
1	1	1	1	0	0	0	0	0	0	1	0	0	0	11
0	0	0	0	1	1	1	1	1	1	0	1	0	1	20
1	1	1	1	1	1	0	1	0	1	0	1	1	1	24
1	1	1	1	1	1	1	0	1	0	1	1	0	1	25
0	1	1	1	1	0	0	1	0	0	0	0	0	1	10
1	1	1	1	1	1	1	0	1	1	1	1	1	0	28
1	0	0	0	1	1	1	1	1	1	0	1	1	0	19
1	0	0	0	1	1	1	0	1	1	1	1	1	1	19
1	0	0	0	1	1	1	1	1	1	1	1	0	1	20
1	0	0	0	1	0	1	1	1	1	1	1	0	1	20
1	0	0	0	1	0	1	1	0	0	1	1	1	1	17
1	1	0	1	1	1	1	1	1	1	0	1	0	1	20
1	1	1	1	1	1	1	1	1	1	0	1	1	1	29
1	0	0	0	1	1	1	0	1	1	1	1	0	1	18
0	0	0	0	1	0	1	1	0	1	0	1	0	1	17
0	1	1	0	0	1	0	0	1	0	0	0	0	0	8
1	0	1	1	1	0	1	1	1	1	1	1	1	0	13
0	0	0	0	1	1	1	1	1	0	0	1	0	1	12
1	1	1	1	1	0	0	1	1	1	1	1	1	0	27
1	1	1	1	1	1	1	1	0	1	1	1	0	1	25
1	0	0	0	1	0	0	1	1	1	0	0	1	1	19
0	1	1	0	1	1	0	1	0	1	0	1	0	0	20
0	1	1	1	0	1	0	0	0	0	0	0	0	0	16
1	1	1	0	1	1	1	1	1	1	1	1	1	1	26
0	0	0	0	0	1	1	1	1	0	0	0	1	0	12
0	0	0	0	1	1	0	0	1	1	0	0	1	1	13
0	0	0	0	0	1	0	1	1	0	1	0	0	0	15
1	0	1	1	0	1	1	1	1	1	1	1	1	0	26
1	1	1	1	1	1	1	0	1	1	1	1	0	1	28
0	1	1	1	0	1	1	1	1	0	1	0	0	0	18
0	0	1	1	0	1	0	1	0	0	1	1	0	1	11

CALCULATION OF DISCRIMINATION POWER AND
Difficulty Index

SUBJECT NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
29	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
U	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
P	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
P	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
E	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0	1
R	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
35	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
11	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1
G	1	1	0	0	1	1	1	1	1	1	1	1	0	1	1	1
R	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	0
10	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	0
S	1	1	1	1	1	1	1	0	1	1	1	1	1	0	1	1
U	0	1	0	0	1	0	1	0	0	1	1	1	1	1	1	1
?	1	1	0	1	1	0	1	1	0	1	1	0	1	1	1	1
5	0	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1
13	0	1	1	0	0	1	0	0	1	1	1	0	1	1	0	1
6	1	0	0	1	0	0	1	0	1	1	0	0	0	1	1	0
29	1	1	1	1	1	1	0	0	1	1	0	0	1	1	1	1
17	0	0	1	1	1	1	1	0	1	0	1	0	1	0	1	1
9	1	1	1	0	1	1	1	0	0	1	1	1	0	1	1	1
16	1	1	0	0	1	0	1	0	0	1	1	1	1	0	1	1

CORRECT ANSWER (U)	15	17	14	14	17	14	18	9	10	19	17	15	16	17	15	17
-----------------------	----	----	----	----	----	----	----	---	----	----	----	----	----	----	----	----

14	1	1	0	0	1	0	1	0	0	1	1	1	1	1	1	0	1
28	1	0	1	1	1	1	1	1	0	1	1	1	0	1	0	1	0
L	0	1	1	0	1	1	0	1	1	0	1	1	1	0	0	0	1
O	1	1	0	0	0	0	1	0	0	0	1	1	1	0	1	1	1
K	0	1	0	0	1	0	1	0	0	1	1	1	1	0	0	0	1
E	0	1	0	0	1	0	0	0	0	0	1	1	1	1	0	0	1
R	0	1	0	0	1	0	0	0	0	1	1	1	1	1	0	1	0
21	1	1	0	0	0	0	0	0	0	1	1	1	0	1	1	1	1
22	1	0	1	1	0	1	1	0	0	1	1	1	1	1	1	0	1
18	1	1	0	0	1	0	1	0	0	1	1	1	1	1	0	0	1
30	1	1	0	1	1	0	1	1	1	0	1	1	1	1	1	1	0
R	1	1	1	0	1	1	1	1	0	0	1	0	0	1	0	1	1
34	1	1	1	0	1	1	1	1	0	0	1	0	0	1	0	1	1
9	0	1	1	0	0	0	1	1	1	0	1	0	1	0	0	1	0
33	0	1	1	0	0	0	1	1	1	0	1	0	1	0	0	1	0
U	0	0	1	1	0	1	1	0	1	1	1	1	0	0	0	0	0
32	0	0	1	1	0	1	1	0	1	1	1	1	0	0	0	0	0
P	1	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0
25	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0
8	0	0	1	1	0	1	0	0	1	0	0	0	0	0	1	1	0
38	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	1	0
12	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0
3	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0
23	1	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0

CORRECT ANSWER (L)	10	12	8	6	12	8	10	5	6	8	12	11	11	9	10	10
-----------------------	----	----	---	---	----	---	----	---	---	---	----	----	----	---	----	----

DP =	0.26	0.26	0.32	0.42	0.26	0.32	0.42	0.21	0.21	0.53	0.26	0.21	0.26	0.42	0.26	0.37
(U-L)/N																
Interp.	Sat.	Sat.	Sat.	Good	Sat.	Sat.	Good	Sat.	Sat.	Sat.	Good	Sat.	Sat.	Sat.	Sat.	Sat.
CORRECTLY(C)	25	29	22	20	29	22	28	14	16	26	29	26	27	26	25	27
Di=C/TOTAL	0.65	0.76	0.578	0.52	0.76	0.57	0.73	0.36	0.42	0.68	0.76	0.6842	0.71	0.68	0.65	0.71
Interp.	Mod.	Easy	Mod.	Moderate	Easy	Mod.	Mod.	Mod.	Mod.	Mod.	Easy	Mod.	Mod.	Easy	Mod.	Easy

17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL SCORE
1	1	1	1	1	1	1	1	1	0	1	1	1	1	29
1	1	1	1	1	1	1	0	1	1	1	1	1	0	28
1	1	1	1	1	1	1	0	1	1	1	1	0	1	28
1	1	1	1	1	1	0	0	1	1	1	1	1	0	27
1	1	1	1	1	1	0	0	1	1	1	1	1	1	26
1	0	1	1	0	1	1	1	1	1	1	1	1	0	26
1	1	1	1	1	1	1	0	1	1	1	0	1	1	25
1	1	1	1	1	1	1	0	1	1	1	0	1	1	25
1	1	1	1	1	1	1	0	1	0	1	0	1	1	24
0	0	1	0	0	1	1	1	0	1	1	1	1	1	23
1	1	1	1	1	1	1	1	1	1	1	0	1	1	23
0	0	1	1	1	1	1	1	1	1	0	1	0	1	22
0	0	0	0	0	1	1	1	1	1	0	1	1	1	21
1	1	0	1	1	1	1	1	1	1	0	1	0	1	20
1	1	1	1	0	1	1	1	1	1	1	1	1	1	20
0	1	1	0	1	1	0	1	0	1	0	1	0	0	20
1	0	0	0	1	0	1	1	1	1	1	1	0	1	20
0	0	0	0	1	1	1	1	1	0	1	0	1	1	20
1	0	0	0	1	1	1	1	1	1	1	0	1	1	20
14	32	14	12	15	17	16	15	16	17	13	17	11	15	
1	0	0	0	1	1	1	1	1	1	0	1	1	0	19
1	0	0	0	1	0	0	1	1	1	0	0	1	1	19
0	1	1	1	0	1	1	1	1	0	1	0	0	0	18
1	0	0	0	1	1	1	0	1	1	1	1	1	1	18
1	0	0	0	1	1	1	0	1	1	1	1	1	1	18
1	0	1	1	1	0	1	1	1	1	1	1	1	0	18
1	0	0	0	1	1	1	0	1	1	1	1	0	1	18
0	0	0	0	1	0	1	1	0	1	0	1	0	1	17
1	0	0	0	1	0	1	1	0	0	1	1	1	1	17
0	1	1	1	0	1	0	0	0	0	0	0	0	0	16
0	0	0	0	1	0	1	0	1	1	0	0	0	0	15
0	0	0	0	1	1	0	0	1	1	0	0	1	1	13
0	0	0	0	0	1	1	1	0	0	0	1	0	0	12
0	0	0	0	1	1	1	1	1	0	0	1	0	1	12
1	1	1	1	0	0	0	0	0	0	1	0	0	0	11
0	0	1	1	0	1	0	1	0	0	1	1	0	1	11
0	1	1	1	1	0	0	1	0	0	0	0	0	1	10
0	0	0	0	0	1	1	0	1	1	0	1	0	1	9
0	1	1	0	0	1	0	0	1	0	0	0	0	0	8
8	5	7	6	11	13	11	11	12	9	9	11	7	11	
0.32	0.37	0.37	0.32	0.21	0.21	0.26	0.21	0.21	0.42	0.21	0.32	0.21	0.21	
Sat.	Good	Sat.	Sat.	Sat.	Sat.									
22	17	21	18	26	30	27	26	28	26	22	28	18	26	
0.57	0.44	0.55	0.47	0.59	0.78	0.71	0.68	0.73	0.68	0.57	0.73	0.47	0.68	
Mod.	Mod.	Mod.	Mod.	Mod.	Easy	Easy	Mod.	Easy	Mod.	Mod.	Easy	Mod.	Mod.	

Criterion of Discrimination Power

0.00 - 0.20 : Poor

0.20 - 0.40 : Satisfactory

0.40 - 0.70 : Good

0.70 - 1.00 : Excellent

Criterion of Difficulty Index

0.00 - 0.30 : Difficult

0.30 - 0.70 : Moderate

0.70 - 1.00 : Easy

CALCULATION FOR RELIABILITY KR-21

NO.	X	X ²	NO.	X	X ²
1	23	529	31	26	676
2	18	324	32	12	144
3	9	81	33	13	169
4	22	484	34	15	225
5	21	441	35	26	676
6	20	400	36	28	784
7	23	529	37	18	324
8	11	121	38	11	121
9	20	400			
10	24	576			
11	25	625	(TOTAL)	726	15044
12	10	100	n	38	
13	28	784	(MEAN)	19.10	
14	19	361	(VAR.)	30.89	
15	18	324			
16	20	400			
17	20	400			
18	17	289			
19	20	400			
20	29	841			
21	18	324			
22	17	289			
23	8	64			
24	18	324			
25	12	144			
26	27	729			
27	25	625			
28	19	361			
29	20	400			
30	16	256			

$$M = \frac{\sum X}{n} = 19.10526$$

$$V = \frac{\sum (X^2) - (\sum X)^2/n}{n} = 30.89365$$

K = 30

KR-21 FORMULA :#)

$$r = \frac{K}{K-1} \cdot \frac{M(V-M)}{KV} = 0.802079$$

Where:
r = Reliability
n = Number of subjects
M = Mean
V = Variance
K = Number of items
r table = 0.320

Because r greater than r table, so the test is reliable.

CALCULATIONS OF EMPIRICAL VALIDITY, r PRODUCT MOMENT*)

No.		TRY OUT	SUM	X^2	Y^2	XY
		X	Y			
1	:	23	2.7	529	7.29	62.1
2	:	18	3.5	324	12.25	63.0
3	:	9	2.3	81	5.29	20.7
4	:	22	5.5	484	30.25	121.0
5	:	21	4.4	441	19.36	92.4
6	:	20	5.1	400	26.01	102.0
7	:	23	6.3	529	39.69	144.9
8	:	11	3.1	121	9.61	34.1
9	:	20	4.4	400	19.36	88.0
10	:	24	6.4	576	40.96	153.6
11	:	25	2.3	625	5.29	57.5
12	:	10	4.1	100	16.81	41.0
13	:	28	7.0	784	49.00	196.0
14	:	19	4.5	361	20.25	85.5
15	:	18	3.7	324	13.69	66.6
16	:	20	5.2	400	27.04	104.0
17	:	20	4.0	400	16.00	80.0
18	:	17	1.6	289	2.56	27.2
19	:	20	5.8	400	33.64	116.0
20	:	29	8.6	841	73.96	249.4
21	:	18	5.5	324	30.25	99.0
22	:	17	2.9	289	8.41	49.3
23	:	8	2.8	64	7.84	22.4
24	:	18	5.2	324	27.04	93.6
25	:	12	2.0	144	4.00	24.0
26	:	27	7.3	729	53.29	197.1
27	:	25	6.9	625	47.61	172.5
28	:	19	2.8	361	7.84	53.2
29	:	20	6.1	400	37.21	122.0
30	:	16	5.3	256	28.09	84.8
31	:	26	5.9	676	34.81	153.4
32	:	12	3.5	144	12.25	42.0
33	:	13	3.1	169	9.61	40.3
34	:	15	2.8	225	7.84	42.0
35	:	26	5.7	676	32.49	148.2
36	:	28	7.3	784	53.29	204.4
37	:	18	4.4	324	19.36	79.2
38	:	11	2.0	121	4.00	22.0
TOTAL	:	726	172	15044	893.54	3554.4
n =		38				

X = SCORE OF TRY OUT

Y = SCORE OF SUMMATIVE TEST

$$t_1: r = \frac{n(\bar{x}\bar{y} - \bar{x}_s\bar{y}_s)}{\sqrt{[n(\bar{x}^2 - (\bar{x})^2)[n(\bar{y}^2 - (\bar{y})^2]} = 0.730$$

2. 5% significance level, n = 38, $r_{\text{table}} = 0.320$

3. CONCLUSION :

Since $r_{\text{calculation}} = 0.730266 > r_{\text{table}}$, then there is significant correlation between X and Y.
So, test is valid.

Lampiran V

MARGA KRITIS DARI r PRODUCT MOMENT

N	Interval Kepercayaan 5%		N	Interval Kepercayaan 5%		N	Interval Kepercayaan 5%	
	5%	1%		5%	1%		5%	1%
3	0.887	0.898	26	0.388	0.488	55	0.268	0.345
4	0.850	0.880	27	0.381	0.487	80	0.254	0.330
5	0.878	0.859	28	0.374	0.478	65	0.244	0.317
			29	0.387	0.470			
6	0.811	0.917	30	0.381	0.483	70	0.235	0.308
7	0.754	0.874				75	0.227	0.298
8	0.707	0.874	31	0.355	0.456	80	0.220	0.288
9	0.686	0.798	32	0.349	0.449	85	0.213	0.278
10	0.632	0.785	33	0.344	0.442	90	0.207	0.270
			34	0.339	0.438			
11	0.602	0.735	35	0.334	0.430	95	0.202	0.263
12	0.576	0.708				100	0.195	0.256
13	0.553	0.684	36	0.329	0.424	125	0.176	0.230
14	0.532	0.661	37	0.325	0.418	150	0.159	0.210
15	0.514	0.641	38	0.320	0.413	175	0.148	0.194
			39	0.318	0.408			
16	0.497	0.623	40	0.321	0.403	200	0.138	0.181
17	0.482	0.606				300	0.113	0.148
18	0.488	0.590	41	0.308	0.396	400	0.093	0.128
19	0.456	0.575	42	0.304	0.383	500	0.088	0.115
20	0.444	0.561	43	0.301	0.389	800	0.080	0.105
			44	0.297	0.408			
21	0.433	0.549	45	0.294	0.380	700	0.074	0.097
22	0.423	0.537				800	0.070	0.091
23	0.413	0.526	48	0.291	0.376	900	0.065	0.088
24	0.404	0.515	47	0.200	0.372			
25	0.396	0.305	48	0.284	0.368	1000	0.062	0.081
			49	0.281	0.364			
			50	0.279	0.361			

N = jumlah pasangan yang digunakan untuk menghitung r.

Tabel ini disusun oleh L.D. Edison dari $r = \frac{t^*}{\sqrt{N - 2 + t^2}}$

Wert dkk., p. 424

CALCULATION FOR TWO MEANS TEST

NO.	xA	x ² A	xC	x ² C
1	28	784	27	729
2	28	784	16	256
3	29	841	28	784
4	24	576	20	400
5	19	361	26	676
6	28	784	25	625
7	24	576	24	576
8	27	729	23	529
9	26	676	23	529
10	24	576	25	625
11	24	576	25	625
12	26	676	25	625
13	25	625	18	324
14	27	729	24	576
15	27	729	26	676
16	26	676	21	441
17	26	676	21	441
18	23	529	22	484
19	25	625	25	625
20	26	676	22	484
21	26	676	21	441
22	26	676	23	529
23	26	676	21	441
24	24	576	26	676
25	23	529	27	729
26	25	625	28	784
27	29	841	24	576
28	26	676	23	529
29	26	676	22	484
30	26	676	21	441
31	23	529	25	625
32	24	576	23	529
33	25	625	30	900
34	23	529	25	625
35	24	576	25	625
36	16	256	27	729
37	26	676	25	625
38	29	841	24	576
39	23	529	17	289
TOTAL	982	24968	923	22183
n	39	-	39	-
MEAN	25.2		23.7	
SD	2.522235		2.985344	

TESTS OF HYPOTHESES :

1. $H_0 : m_A = m_C$, there is no difference between the mean groups.

$H_a : m_A > m_C$, mean score of A group is greater than C group.

2. t-test, where df. = $n_A + n_C - 2 = 76$
 $t(0.05) = 1.671$

3. Calculation for t observation (t_o) :

A : EXPERIMENTAL

====

$$\bar{x} = \frac{\sum x}{n} = 25.17948 ; n = 39$$

$$s = \sqrt{\frac{\sum (x^2 - (\bar{x})^2)}{n(n-1)}} = 2.522235$$

C : CONTROL

====

$$\bar{x} = \frac{\sum x}{n} = 23.66666 ; n = 39$$

$$s = \sqrt{\frac{\sum (x^2 - (\bar{x})^2)}{n(n-1)}} = 2.995344$$

$$\bar{x}_A - \bar{x}_C$$

$$t_o = \frac{\bar{x}_A - \bar{x}_C}{\sqrt{\frac{(n_A-1)s^2_A + (n_C-1)s^2_C}{n_A + n_C - 2} \left(\frac{1}{n_A} + \frac{1}{n_C} \right)}} = 2.417$$

3. CONCLUSION :

Because t observation = $2.417374 > t(0.05)$
so H_0 is rejected.

Hence we conclude that the difference between groups is significant, and that the A group is greater.

TABEL - E

HARGA - HARGA t

	t(.05)	t(.050)	t(.025)	t(.010)	t(.005)
1	3.078	6.314	12.706	31.821	63.657
2	1.886	2.920	4.303	6.965	9.925
3	1.638	2.353	3.182	4.541	5.841
4	1.533	2.132	2.776	3.747	4.604
5	1.476	2.019	2.571	3.365	4.032
6	1.440	1.943	2.447	3.143	3.707
7	1.419	1.875	2.355	2.998	3.499
8	1.397	1.860	2.306	2.696	3.355
9	1.384	1.853	2.262	2.821	3.266
10	1.372	1.812	2.220	2.764	3.1695
11	1.363	1.796	2.201	2.718	3.106
12	1.356	1.792	2.179	2.681	3.055
13	1.352	1.771	2.168	2.650	3.012
14	1.349	1.761	2.145	2.624	2.977
15	1.341	1.753	2.131	2.602	2.947
16	1.337	1.746	2.120	2.583	2.921
17	1.333	1.740	2.110	2.567	2.898
18	1.332	1.734	2.101	2.552	2.878
19	1.328	1.729	2.093	2.537	2.861
20	1.325	1.725	2.086	2.528	2.845
21	1.323	1.721	2.080	2.518	2.851
22	1.321	1.717	2.074	2.508	2.819
23	1.319	1.714	2.069	2.500	2.807
24	1.318	1.711	2.064	2.492	2.797
25	1.318	1.709	2.060	2.485	2.787
26	1.316	1.705	2.042	2.475	2.779
27	1.314	1.703	2.032	2.473	2.771
28	1.313	1.701	2.048	2.467	2.763
29	1.311	1.699	2.045	2.462	2.756
30	1.310	1.697	2.042	2.457	2.750
<i>banyak k</i>					
60	1.303	1.684	2.021	2.423	2.704
60	1.296	1.671	2.000	2.390	2.660
120	1.289	1.658	1.980	2.358	2.617
inf	1.287	1.645	1.960	2.326	2.576

Contoh:

$$t(5\%; 19) = 1.722$$

$$t(1\%; 14) = 2.924$$

HARGA KRITIK t_c UNTUK TAHAP SIGNIFIKANSI 5% DAN 1%

ARAH PENGUJIAN	0.05	0.01
DUA ARAH	+ 1.96	+ 2.56
ARAH KIRI	- 1.65	- 2.33
ARAH KANAN	+ 1.96	+ 2.33