<table>
<thead>
<tr>
<th>Appendix</th>
<th>Description</th>
<th>Page No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.</td>
<td>A list of sentences given to experts to judge length and complexity.</td>
<td>57</td>
</tr>
<tr>
<td>B.</td>
<td>Table showing means of reaction time of 30 subjects (15 boys and 15 girls) of reading group.</td>
<td>72</td>
</tr>
<tr>
<td>C.</td>
<td>Table showing means of reaction time of 30 subjects (15 boys and 15 girls) of listening group.</td>
<td>73</td>
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<tr>
<td>D.</td>
<td>Showing analysis of variance applied on reaction time.</td>
<td>74</td>
</tr>
<tr>
<td>E.</td>
<td>Table showing means of correct responses of 30 subjects (15 boys and 15 girls) of reading group.</td>
<td>76</td>
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<tr>
<td>F.</td>
<td>Table showing means of correct responses of 30 subjects (15 boys and 15 girls) of listening group.</td>
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</tr>
<tr>
<td>G.</td>
<td>Showing analysis of variance applied on correct responses.</td>
<td>78</td>
</tr>
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</table>
Dear Sir/Madam,

We are going to present some sentences in sets: You are required to see whether these sentences are having same length and complexity.

I am taking student of graduation and post-graduation. Please give your opinion and suggestions regarding the length as the complexity of the sentence.

Thanking you,

Yours faithfully,

Deen Dayal

(DEEN DAYAL VASHISHT)
I know him very well
He is in this room
He is my brother
He is a good player.

He plays football.
I am elder than him.
We are going to the river.
He is my brother.

I want a cup of tea.
I shall take milk
The milk is hot,
The water is cool.

I have many friends
They are all good.
She is my class fellow.
The milk is hot.

I like you very much.
I have good company.
He is an intelligent boy.
He is more intelligent than me.

I can sing a song.
My father is a teacher.
My mother is a doctor.
I like you very much.
One day he went to Delhi.
Ram is my best friend.
She is better than him.
I love her very much.

How many brothers are you?
There is milk in the cup.
She is better than him.
There are four students.

The milk is hot.
He is an elephant.
There are some animals.
He is elder than me.

We can do this work.
We can read this book.
I wrote a letter.
There are some animals.

Ram is a good boy.
Sita is a good girl.
She has a book.
He has fine pencils.

She has a book.
My name is Ram.
What is your name?
How are you?
Give me your book.
Obey my brother.
Do not play with bad boys.
Never tell a lie.

Did she go to college.
Close the door.
Play with her.
Give me your book.

Why were you absent yesterday?
Why did you quarrel?
Whom do you like most?
When does your examination come off?

When did he leave for Simla?
Where does your brother live?
Whom do you like most?
Where is the train going.

The day was very hot.
My horns are very beautiful.
His legs helped him.
A stag felt thirsty.

She went to the river.
I advised them.

The day was very hot.
She did not go there.
He has earned a lot.
My elder brother sent for me.
It rained yesterday.
She was laughing at me.

What will you eat.
We shall go on foot.
My elder brother sent for me.
Avoid bad company.

Let us go to school.
May I come in?
You forgot my name.
I like print very much.

Food is cooked every day by her.
When will you came?
I like print very much.
Did he go to school?

He does not speak the truth.
How was Eklavya dressed?
Where did the dog turn back?
Up in the air so blew?

Ever a child can do?
Why did Tagore love pockets?
He does not speak the truth.
How many kinds of paper are there?
The captain kicked the ball.
She wrote many poems.
Who stolen my pen?
She likes me.

He became fond of reading.
She got a promise from the king.
She likes me.
He is happy as he can sign his name.

He chose her to rule.
He was elected president by the people.
The steam engine driver the train.
What was another problem?

What did he want?
He chose her to rule.
The pleasant light of day.
What does the cow do?

He was loved by the people.
Rekha killed it.
What are you to him.
Her sister is a doctor.

What brings you here?
Do you go for a walk every day?
All the question are compulsory.
Her sister is a doctor.
The house was on fire.
I have been here for three days.
What does she give?
What is the colour of the cow?
I love with all my heart.
The house was on fire.
Why did the guard beat Edison?
Why is Pinjore famous for?
Once he stole a pen.
We read a lot of books.
They are doing their work.
They opened the doors.
In which class do you read?
I am a student.
They are doing their work.
All his men escaped to the hills.
What were his daughters called?
How did the elder daughter live?
How did the younger sister live?
What did Rekha say?
What does the seep give?
What do we do with the wool?
What did Rekha say?
How did she kill the Cobra?
Who helped the Pandavas?
What did Dhritrashtra do?
What happened to Pandavas?
How are the carpets soiled?

Why can the kettles not boil?
There is no one to stoke them.
What happened to Pandavas?
That kettles can not boil.

I do my work honestly.
Obey your teachers.
He will sing a song.
Who helps you?

She was sent to jail.
By whom are you helped.
He will sing a song.
It ended in a draw.

An iron is a useful metal.
He is taller than me.
Let us sit in the sun.
He said that he will come.

I know him.
The boys laughed at the beggar.
He is taller than me.
Who gave you this pen?
God is everywhere.
May she live long!
Mind your ways.
You behaved well.

He has lost the pen.
They are learning a poem.
Do you obey your parents.
Mind your ways.

I am a man.
He is very rich.
He is very strong.
You were hungry.

Mohan was honest.
I have a book.
They have slats.
He is very strong.

There is a chair in the room.
There was a book on the table.
There are leaves on the tree.
There are men on the road.

There was a match yesterday.
There are many flowers.
There was a book on the table.
There is a car in this building.
You will breath no more.
You are in no way great.
You behaved well.
I have not seen him doing so.

He will win the race.
My uncle will send me a gift.
You behaved well.
He will have posted the letter.

He is tall and thin.
He respects his teachers.
He speaks the truth.
All of us like her.

She helps the poors.
He is a master of Psychology.
He makes things easy and simple.
He respects his teachers.

I look her in my dreams.
I am helpless for this work.
I can not do this work.
She is the queen of my dream.

I have two bicycles.
I always think about her.
I am helpless for this work.
He told me a picture story.
She is going to school.
Ram is going to college.
Where are you going?
I am going to picture.

I have five books.
What are you doing?
Ram is going to college.
How many brothers are you?

I can not sleep at this time.
I am very happy this night.
You are a beautiful girl.
We will meet after two years.

I can not tell you about her.
We can do this work.
You are a beautiful girl.
I like you very much.

I got your letter yesterday.
I want to ask a question.
Can we do this work.
You are a student of B.A.III Hons.

I am angry with you.
You can come in holidays.
I got your letter yesterday.
Please, give me this paper.
LIST OF SENTENCES IN SETS GIVEN TO SUBJECTS IN READING AS WELL AS LISTENING CONDITION.

I-A. I know him very well.
He is in this room.
He is my brother.
He is a good player.

B. He plays football.
I am elder to him.
We are going to the river.
He is my brother.

2. I want a cup of tea.
I shall take milk.
The milk is hot.
The water is cold.

I have many friends.
They are all good.
The milk is hot.
She is my class fellow.
3. I like you very much.  
I have good company.  
She is a girl.  
Ram is not a good boy.  
I like you very much.  
I can sing a song.  
My father is a teacher.  
My mother is a doctor.

4. One day he went to Delhi.  
Ram is my best friend.  
She is better than him.  
I love her very much.  
How many brothers are you?  
There is milk in the cup.  
She is better than him.  
There are four students.

5. She is my sister.  
It is an elephant.  
There are some animals.  
He is elder to me.  
There are some animals.  
I wrote him a letter.  
I can read this book.  
We can do this work.
6. Ram is a good boy.
   Sita is a good girl.
   She has a book.
   He has five pencils.
   My name is John.
   She has a book.
   What is your name?
   How are you?

7. Give me your book.
   Obey your brother.
   Do not play with bad boys.
   Never tell a lie.
   Did she go to college?
   Close the door.
   Play with her.
   Give me your book.

8. The day was very hot.
   My hands are very beautiful.
   His legs helped him.
   A dog felt thirsty.
   She went to the river.
   He advised them.
   The day was very hot?
   She did not go there.
9. I am a man.
   We are rich.
   He is very strong.
   You were hungry.
   Mohan was honest.
   I have a book.
   They have a car.
   He is very strong.

10. He is tall and thin.
    He respects his teachers.
    He speaks the truth.
    All of us like her.
    She helps the poor.
    He is master of Psychology.
    I have two cycles.
    He respects his teachers.

......
### Group Showing Mean of Reaction Time of Reading

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Appendix C showing mean of Reaction time of listening group.

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</table>

$\sum X_2 = 51.12 \quad \sum X^2_2 = 296.86 \quad \sum Y_2 = 31.13 \quad \sum Y^2_2 = 83.85$
\[ C = \frac{\left( \sum X_1 + \sum Y_1 + \sum X_2 + \sum Y_2 \right)^2}{N} \]
\[ = \frac{\left( 56.75 + 48.71 + 51.12 + 31.13 \right)^2}{60} \]
\[ = \frac{(187.71)^2}{60} \]
\[ = 587.25 \]

Total SS = \[ \sum X_1^2 + \sum X_2^2 + \sum Y_1^2 + \sum Y_2^2 - \frac{\left( \sum X_1 + \sum X_2 + \sum Y_1 + \sum Y_2 \right)^2}{N} \]
\[ = 230.30 + 170.24 + 296.86 + 83.85 - \frac{(56.75 + 48.71 + 51.12 + 31.13)^2}{60} \]
\[ = 781.25 - 587.25 \]
\[ = 194.00 \]

Among SS = \[ \frac{\left( \sum X_1 \right)^2}{N} + \frac{\left( \sum X_2 \right)^2}{N} + \frac{\left( \sum Y_1 \right)^2}{N} + \frac{\left( \sum Y_2 \right)^2}{N} - C \]
\[ = \frac{(56.75)^2}{15} + \frac{(48.71)^2}{15} + \frac{(51.12)^2}{15} + \frac{(31.13)^2}{15} - 587.25 \]
\[ = 214.70 + 158.17 + 174.21 + 64.60 - 587.25 \]
\[ = 611.68 - 587.25 \]
\[ = 24.43 \]

Within treatment = Total SS - Among SS
\[ = 194.00 - 24.43 \]
\[ = 169.57 \]

Main effect of Presentation form (A)
\[ \frac{(\sum X_1 + \sum Y_1)^2}{N} + \frac{(\sum X_2 + \sum Y_2)^2}{N} - C \]
\[
\frac{(56.71 + 51.12)^2 + (48.71 + 31.13)^2}{30} - 587.25 \\
= 387.57 + 212.48 - 587.25 \\
= 600.05 - 587.25 \\
= 12.80
\]

Main effect of Sex Variable (B)

\[
\frac{(\sum X_1 + \sum X_2)}{N} + \frac{(\sum Y_1 + \sum Y_2)}{N} = C. \\
\frac{(56.71 + 48.71)^2 + (51.12 + 31.13)^2}{30} - 587.25 \\
= 370.72 + 225.50 - 587.25 \\
= 298.82 \\
= 596.22 - 587.25 \\
= 8.97
\]

Interaction = Among A - B

\[
= 24.43 - 12.80 - 8.97 \\
= 2.66
\]
Appendix-E showing mean of correct responses of Reading group:

<table>
<thead>
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<th>Ss</th>
<th>$X_1$ (Boys)</th>
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<th>$Y_1$ (Girls)</th>
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$\sum X_1 = 14.00$  $\sum X_1^2 = 13.18$  $\sum Y_1 = 13.50$  $\sum Y_1^2 = 12.27$
Appendix-F showing mean of correct responses of Listening Group

<table>
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<td>.81</td>
<td>.90</td>
<td>.81</td>
</tr>
<tr>
<td>15.</td>
<td>.90</td>
<td>.81</td>
<td>1.00</td>
<td>1.00</td>
</tr>
</tbody>
</table>

$\sum X_2 = 13.70 \quad \sum X_2^2 = 12.59 \quad \sum Y_2 = 13.10 \quad \sum Y_2^2 = 11.59$
Appendix-G.

\[ C = \frac{\left( \sum X_1 + \sum Y_1 + \sum X_2 + \sum Y_2 \right)^2}{N} \]

\[ = \frac{(14.00 + 13.50 + 13.70 + 13.10)^2}{60} \]

\[ = 2948.49 \]

\[ = 49.14 \]

Total SS = \[ \frac{\sum X_1^2 + \sum X_2^2 + \sum Y_1^2 + \sum Y_2^2}{N} - \frac{(\sum X_1 + \sum Y_1 + \sum X_2 + \sum Y_2)^2}{N} \]

\[ = 13.18 + 12.59 + 12.27 + 11.59 - \frac{(14.00 + 13.50 + 13.70 + 13.10)^2}{60} \]

\[ = 49.63 - 49.14 \]

\[ = 0.49 \]

Among SS = \[ \frac{(\sum X_1)^2}{N} + \frac{(\sum X_2)^2}{N} + \frac{(\sum Y_1)^2}{N} + \frac{(\sum Y_2)^2}{N} - C \]

\[ = \frac{(14.00)^2}{15} + \frac{(13.70)^2}{15} + \frac{(13.50)^2}{15} + \frac{(13.10)^2}{15} - 49.14 \]

\[ = 49.25 - 49.14 \]

\[ = 0.11 \]

Within SS = Total SS - Among SS

\[ = 0.49 - 0.11 \]

\[ = 0.38 \]

Main effect of Presentation form (A)

\[ = \frac{(\sum X_1 + \sum Y_1)^2}{30} + \frac{(\sum X_2 + \sum Y_2)^2}{30} - C \]

\[ = \frac{(14.00 + 13.50)^2}{30} + \frac{(13.70 + 13.10)^2}{30} - 49.14 \]

\[ = \frac{(14.00)^2}{30} + \frac{(13.50)^2}{30} - 49.14 \]
Main effect of Sex variable (9)

\[ \frac{(\bar{X}_1 + \bar{X}_2)}{N} + \frac{(\bar{Y}_1 + \bar{Y}_2)}{N} - C \]

\[ = \frac{(14.00 + 13.70)}{30} - \frac{(13.50 + 13.10)}{30} - 49.14 \]

\[ = \frac{(27.70)}{30} + \frac{(26.50)}{30} - 49.14 \]

\[ = 767.29 + 707.56 - 49.14 \]

\[ = 25.57 + 33.58 - 49.14 \]

\[ = 49.15 - 49.14 \]

\[ = 0.01 \]

Interaction = Among - A - B

\[ = 0.11 - 0.01 - 0.01 \]

\[ = 0.09 \]