

Lampiran 1

INSTRUMEN PENELITIAN

Instrumen Yang Digunakan Untuk Mengetahui Pola Didik Orang Tua Terhadap Hasil Belajar IPA Siswa SMP SATAP Negeri Mantigola

| Variabel Penelitian | Indikator | No. Item Instrumen | | Jumlah |
|-----------------------------|---|--------------------------|-------------------|--------|
| | | Positif | Negatif | Soal |
| Pola Didik Orang Tua | 1. Peraturan orang tua lebih luwes (cara orang tua mengatur anak) | 1,2, 4 | 3, 5, 6 | 6 |
| | 2. Menggunakan Penjelasan dan diskusi dalam berkomunikasi (bermusyawara) | 7, 8, 10, 11, 12 | 9 | 6 |
| | 3. Adanya sikap terbuka antara orang tua dan anak (komunikasi dua arah) | 14, 15, 16, 17, 18 | 13 | 6 |
| | 4. Adanya pengakuan orang tua terhadap kemampuan anak-anaknya (pemberian penghargaan atas apa yang dicapai anak) | 19, 20, 21, 24 | 22, 23 | 6 |
| | 5. Memberi kesempatan untuk tidak tergantung | 25, 26 | 27, 28, 29, 30 | 6 |

| | | | | |
|---------------|---|-----------|-----------|-----------|
| | dengan orang tua (anak belajar mandiri) | | | |
| Jumlah | | 19 | 11 | 30 |



Lampiran 2

ANGKET PENGARUH ORANG TUA TERHADAP HASIL BELAJAR PENDIDIKAN PENGETAHUAN ALAM SISWA SMP SATAP NEGERI MANTIGOLA TAHUN PELAJARAN 2019/2020

A. Identitas Responden

1. Nama :
2. JenisKelamin :
3. Kelas :
4. NomorAbsen :
5. Nama OrangTua :
6. Alamat :
7. Hari/ Tanggal :

B. Petunjuk Pengisian Angket

1. Isilah identitas anda dengan lengkap.
2. Silahkan anda membaca dan memahami setiap pertanyaan dalam angket ini. Pilihlah salahsatu jawaban yang paling sesuai dengan keadaan diri anda dengan memberikan tanda silang (x) pada pilihan yang ada.
3. Dalam anda memberikan jawaban, tidak ada jawaban yang salah, semua jawaban benar dan dapat peneliti terima selama jawaban tersebut dengan keadaan diria nda yang sebenarnya.
4. Anda di harapkan menjawab semua pertanyaan yang ada dan jangan ada yang terlewati.
5. Sebelum angket ini di kembalikan atau dikumpulkan, periksalah kembali jawaban anda yakin bahwa angket anda sudah anda jawab semua.
6. Anda tidak perlu khawatir, kerahasiaan jawaban anda peneliti jamin.
7. Hasil jawaban dari nagket yang anda berikan, tidak akan mempengaruhi nilai pelajaran IPA anda disekolah. Tetapi hanya untutk kepentingan peneliti saja.
8. Atas bantuan dan kerja samanya, peneliti ucapkan terimakasih.

C. Angket Penelitian

I. Peraturan Orang Tua Lebih Luwes

1. Apakah orang tua anda senantiasa mengatur anda dalam melakukan sesuatu?
 - a. Selalu
 - b. Sering
 - c. Kadang-kadang
 - d. Tidak pernah
2. Apakah orang tua anda jika memerintah menggunakan kata-kata yang halus?
 - a. Selalu
 - b. Sering
 - c. Kadang-kadang
 - d. Tidak pernah
3. Apakah orang tua anda senantiasa memaksakan kehendaknya kepada anda?
 - a. Selalu
 - b. Sering
 - c. Kadang-kadang
 - d. Tidak pernah
4. Apakah orang tua anda senantiasa member anda kebebasan untuk berperilaku seperti apa yang anda inginkan?
 - a. Selalu
 - b. Sering
 - c. Kadang-kadang
 - d. Tidak pernah
5. Apakah orang tua anda senantiasa menentukan pilihan anda?
 - a. Selalu
 - b. Sering
 - c. Kadang-kadang
 - d. Tidak pernah
6. Apakah orang tua anda senantiasa menerapkan aturan-aturan yang tidak anda senangi?
 - a. Selalu
 - b. Sering
 - c. Kadang-kadang
 - d. Tidak pernah

II. Orang Tua Menggunakan Penjelasan dan Diskusi dalam Berkomunikasi

7. Apakah orang tua anda senantiasa mengambil keputusan dengan anda jika ingin melakukan sesuatu dalam keluarga?
 - a. Selalu
 - b. Sering
 - c. Kadang-kadang
 - d. Tidak pernah

- a. Selalu
b. Sering
- c. Kadang-kadang
d. Tidak pernah
16. Apakah anda senantiasa curhat kepada orang tua anda?
a. Selalu
b. Sering
- c. Kadang-kadang
d. Tidak pernah
17. Apakah orang tua anda senantiasa bercerita kepada anda mengenai suatu kejadian yang dialaminya?
a. Selalu
b. Sering
- c. Kadang-kadang
d. Tidak pernah
18. Apakah anda senantiasa meminta solusi ketika anda mendapati permasalahan dalam lingkup pergaulan anda disekolah?
a. Selalu
b. Sering
- c. Kadang-kadang
d. Tidak pernah

IV. Adanya Pengakuan Orang Tua Terhadap Kemampuan Anak-Anaknya

19. Apakah orang tua anda senantiasa memberikan pujian ketika anda mendapatkan nilai bagus dalam ujian?
a. Selalu
b. Sering
- c. Kadang-kadang
d. Tidak pernah
20. Apakah orang tua anda senantiasa memberikan hadiah ketika anda mendapatkan peringkat 1 dalam ujian akhir semester?
a. Selalu
b. Sering
- c. Kadang-kadang
d. Tidak pernah
21. Apakah orang tua anda senantiasa menerima apapun hasil kerja ataupun usaha anda dalam melakukan sesuatu?
a. Selalu
b. Sering
- c. Kadang-kadang
d. Tidak pernah
22. Apakah orang tua anda senantiasa tidak mendukung bakat yang anda kembangkan?
a. Selalu
b. Sering
- c. Kadang-kadang
d. Tidak pernah

23. Apakah orang tua anda senantiasa memilihkan anda dalam mengembangkan bakat?

- a. Selalu
- b. Sering
- c. Kadang-kadang
- d. Tidak pernah

24. Apakah orang tua anda senantiasa bangga ketika anda menjadi juara pertandingan dari bakat yang anda kembangkan?

- a. Selalu
- b. Sering
- c. Kadang-kadang
- d. Tidak pernah

V. Anak Diberi Kesempatan Untuk Tidak Bergantung Kepada Orang Tua

25. Apakah anda senantiasa aktif belajar tanpa menunggu perintah dari orang tua anda?

- a. Selalu
- b. Sering
- c. Kadang-kadang
- d. Tidak pernah

26. Apakah anda senantiasa berusaha menyelesaikan masalah anda tanpa bantuan orang tua?

- a. Selalu
- b. Sering
- c. Kadang-kadang
- d. Tidak pernah

27. Apakah orang tua anda senantiasa mengantarkan anda ke sekolah?

- a. Selalu
- b. Sering
- c. Kadang-kadang
- d. Tidak pernah

28. Apakah orang tua anda senantiasa menyiapkan peralatan sekolah untuk anda?

- a. Selalu
- b. Sering
- c. Kadang-kadang
- d. Tidak pernah

29. Apakah orang tua anda senantiasa memasakkan anda ketika pulang dari sekolah?

- a. Selalu
- b. Sering
- c. Kadang-kadang
- d. Tidak pernah

30. Apakah orang tua anda senantiasa melakukan pekerjaan rumah atau tugas anda? Misalnya seperti menyapu, mengepel dan lain-lain.

a. Selalu

b. Sering

c. Kadang-kadang

d. Tidak pernah



Lampiran 3

ANGKET PENELITIAN

PENGARUH ORANG TUA TERHADAP HASIL BELAJAR ILMU PENGETAHUAN ALAM SISWA SMP SATAP NEGERI MANTIGOLA TAHUN PELAJARAN 2019/2020

A. Identitas Responden

1. Nama :
2. Jenis Kelamin :
3. Kelas :
4. Nomor Absen :
5. Nama Orang Tua:.....
6. Alamat :
7. Hari/ Tanggal :

B. Petunjuk Pengisian Angket

1. Isi lah identitas anda dengan lengkap.
2. Silahkan anda membaca dan memahami setiap pertanyaan dalam angket ini. Pilihlah salah satu jawaban yang paling sesuai dengan keadaan diri anda dengan memberikan tanda silang (x) pada pilihan yang ada.
3. Dalam anda memberikan jawaban, tidak ada jawaban yang salah, semua jawaban benar dan dapat peneliti terima selama jawaban tersebut dengan keadaan diri anda yang sebenarnya.
4. Anda diharapkan menjawab semua pertanyaan yang ada dan jangan terlewati.
5. Sebelum angket ini dikembalikan atau dikumpulkan, periksalah kembali jawaban anda yakin bahwa angket anda sudah anda jawab semua.
6. Anda tidak perlu khawatir, kerahasiaan jawaban anda peneliti jamin.
7. Hasil jawab anda dari angket yang anda berikan, tidak akan mempengaruhi nilai pelajaran IPA anda disekolah. Tetapi hanya untuk kepentingan peneliti saja.
8. Atas bantuan dan kerja samanya, peneliti ucapkan terimakasih.

C. Daftar Pertanyaan-Pertanyaan Beserta Alternatif Jawaban

I. Peraturan Orang Tua Lebih Luwes

1. Apakah orang tua anda jika memerintah menggunakan kata-kata yang halus?
 - a. Selalu
 - b. Sering
 - c. Kadang-kadang
 - d. Tidak pernah
2. Apakah orang tua anda senantiasa memaksakan kehendaknya kepada anda?
 - a. Selalu
 - b. Sering
 - c. Kadang-kadang
 - d. Tidak pernah
3. Apakah orangtua anda senantiasa memberi anda kebebasan untuk berperilaku seperti apa yang anda inginkan?
 - a. Selalu
 - b. Sering
 - c. Kadang-kadang
 - d. Tidak pernah
4. Apakah orang tua anda senantiasa menerapkan aturan-aturan yang tidak anda senangi?
 - a. Selalu
 - b. Sering
 - c. Kadang-kadang
 - d. Tidak pernah

II. Orang Tua Menggunakan Penjelasan Dan Diskusi Dalam Berkomunikasi

5. Apakah orang tua anda senantiasa mengambil keputusan dengan anda jika ingin melakukan sesuatu dalam keluarga?
 - a. Selalu
 - b. Sering
 - c. Kadang-kadang
 - d. Tidak pernah
6. Apakah orang tua anda senantiasa berdiskusi kepada anda jika ada suatu permasalahan dalam keluarga anda?
 - a. Selalu
 - b. Sering
 - c. Kadang-kadang
 - d. Tidak pernah
7. Apakah orang tua anda senantiasa tidak mau mendengarkan apa yang anda katakan jika dalam menyelesaikan permasalahan didalam keluarga?
 - a. Selalu
 - c. Kadang-kadang

- b. Sering
d. Tidak pernah
8. Apakah orang tua anda menerima saran ketika menyelesaikan permasalahan dalam keluarga?
a. Selalu
c. Kadang-kadang
b. Sering
d. Tidak pernah
9. Apakah orang tua anda senantiasa menawari anda pilihan solusi jika dalam menyelesaikan permasalahan keluarga?
a. Selalu
c. Kadang-kadang
b. Sering
d. Tidak pernah
10. Apakah orang tua anda menerima saran anda ketika menyelesaikan permasalahan dalam keluarga?
a. Selalu
c. Kadang-kadang
b. Sering
d. Tidak pernah

II. Adanya Sikap Terbuka Antara Orang Tua Dan Anak

11. Apakah orang tua anda senantiasa tidak memberikan solusi ketika anda mengalami kesulitan belajar?
a. Selalu
c. Kadang-kadang
b. Sering
d. Tidak Pernah
12. Apakah orang tua anda senantiasa mengetahui pergaulan anda ketika anda sedang berada diluar rumah?
a. Selalu
c. Kadang-kadang
b. Sering
d. Tidak pernah
13. Apakah anda senantiasa curhat kepada orangtua anda?
a. Selalu
c. Kadang-kadang
b. Sering
d. Tidak pernah
14. Apakah orang tua anda senantiasa bercerita kepada anda mengenai suatu kejadian yang dia alminya?
a. Selalu
c. Kadang-kadang
b. Sering
d. Tidak pernah

15. Apakah anda senantiasa meminta solusi ketika anda mendapati permasalahan dalam lingkup pergaulan anda disekolah?
- a. Selalu
 - b. Sering
 - c. Kadang-kadang
 - d. Tidak pernah

III. Adanya Pengakuan Orang Tua Terhadap Kemampuan Anak-Anaknya

16. Apakah orang tua anda senantiasa memberikan pujian ketika anda mendapatkan nilai bagus dalam ujian?
- a. Selalu
 - b. Sering
 - c. Kadang-kadang
 - d. Tidak pernah
17. Apakah orang tua anda senantiasa memberikan hadiah ketika anda mendapatkan peringkat1 dalam ujian akhir semester?
- a. Selalu
 - b. Sering
 - c. Kadang-kadang
 - d. Tidak pernah
18. Apakah orang tua anda senantiasa menerima apapun hasil kerja ataupun usaha dalam melakukan sesuatu?
- a. Selalu
 - b. Sering
 - c. Kadang-kadang
 - d. Tida kpernah

IV. Anak Diberi Kesempatan untuk Tidak Bergantung Kepada Orang Tua

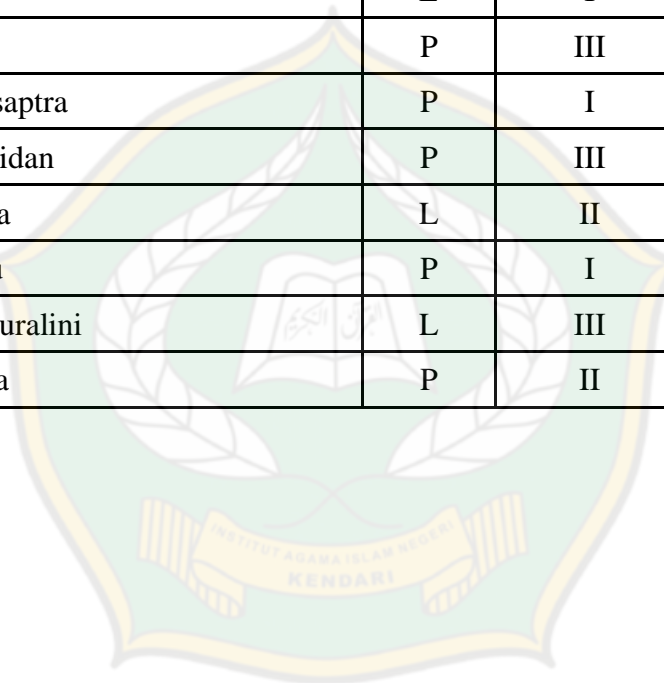
19. Apakah anda senantiasa berusaha menyelesaikan masalah anda tanpa bantuan orang tua?
- a. Selalu
 - b. Sering
 - c. Kadang-kadang
 - d. Tidak pernah
20. Apakah orang tua anda senantiasa mengantarkan anda kesekolah?
- a. Selalu
 - b. Sering
 - c. Kadang-kadang
 - d. Tidak pernah

Lampiran 4

DAFTAR RESPONDEN PENELITIAN

| No | NAMA | L/P | KELAS | KODE |
|-----|---------------|-----|-------|------|
| 1. | Riwal almsah | L | I | R-1 |
| 2. | Rahmatia | P | I | R-2 |
| 3. | Cinta mentari | P | II | R-3 |
| 4. | Windi Sari | P | III | R-4 |
| 5. | Eni Rahmatia | P | I | R-5 |
| 6. | Tiara | P | II | R-6 |
| 7. | Mida | P | III | R-7 |
| 8. | Ladini | L | I | R-8 |
| 9. | Rusdin | L | II | R-9 |
| 10. | Perdin | L | III | R-10 |
| 11. | Deni | P | I | R-11 |
| 12. | Nabila | P | II | R-12 |
| 13. | Iren | L | III | R-13 |
| 14. | Bintang | P | I | R-14 |
| 15. | Bambang | L | II | R-15 |
| 16. | Sugiarto | L | III | R-16 |
| 17. | Ulang Sari | P | II | R-17 |
| 18. | Tomi | L | I | R-18 |
| 19. | Ilham | L | III | R-19 |
| 20. | Reno | L | I | R-20 |
| 21. | Serti | P | II | R-21 |
| 22. | Rianti | P | III | R-22 |
| 23. | Yanti | P | I | R-23 |
| 24. | Selsi | P | II | R-24 |
| 25. | Nabila | P | III | R-25 |
| 25. | Yanto | P | II | R-26 |

| | | | | |
|-----|---------------|---|-----|------|
| 27. | Yusuf | L | I | R-27 |
| 28. | Erna | P | I | R-28 |
| 29. | Zul rahmat | L | II | R-29 |
| 30. | Pira | L | I | R-30 |
| 31. | Kardila | L | III | R-31 |
| 32. | Erna | P | II | R-32 |
| 33. | Reno | L | I | R-33 |
| 34. | Reti | P | III | R-34 |
| 35. | Jojo saptra | P | I | R-35 |
| 36. | Maljidan | P | III | R-36 |
| 37. | Selma | L | II | R-37 |
| 38. | Restu | P | I | R-38 |
| 39. | Siti nuralini | L | III | R-39 |
| 40. | Wilda | P | II | R-40 |



Lampiran 5

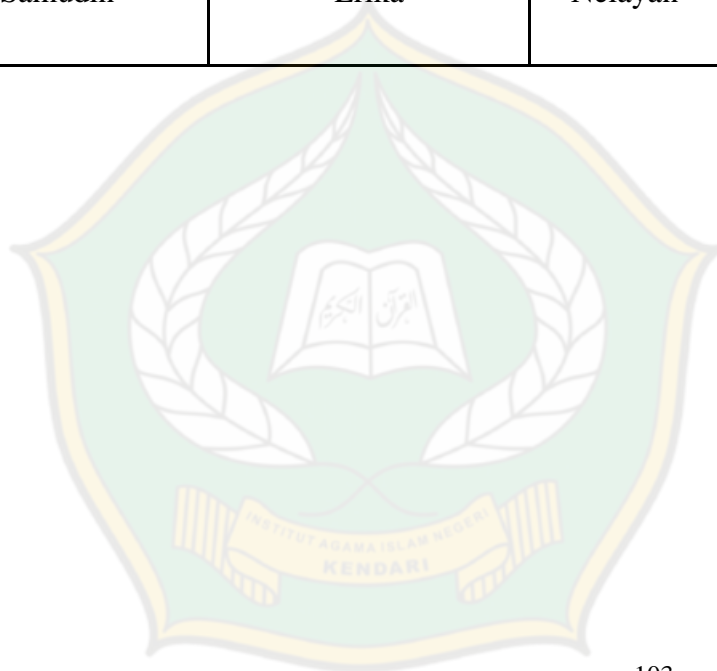
DAFTAR ORANG TUA RESPONDEN

| No | Nama | | Pekerjaan | | Pendidikan | | Alamat |
|----|------------|-------|------------|-----|----------------------------|----------------------------|--------|
| | Ayah | Ibu | Ayah | Ibu | Ayah | Ibu | |
| 1. | Pangki S.E | Pilma | Guru | IRT | S1 | SMA | |
| 2. | Ahmadi | Wilda | Swasta | - | SMP SATAP NEGE RI | SD | |
| 3. | Abdul | Siti | Wiraswasta | IRT | MA | SD | |
| 4. | DIK | ETTI | Nelayan | IRT | SMP SATAP NEGE RI | SD | |
| 5. | Bulan | Nummi | Nelayan | IRT | - | - | |
| 6. | Lakija | Sukia | Nelayan | IRT | SD | SD | |
| 7. | Ansar | Mi, | Nelayan | IRT | - | - | |
| 8. | Boni | Deni | Nelayan | RTI | SD | SMP SATAP NEGE RI | |

| | | | | | | | |
|-----|-------------|----------|---------|-----|----------------------------|----------------------------|--|
| 9. | Kapiru | Sitti | Swasta | IRT | SD | SD | |
| 10. | Tadik | Rosi | Nelayan | IRT | SD | SD | |
| 11 | Musliadi | Pone, | Nelayan | IRT | SMP SATAP NEGE RI | SD | |
| 12 | Mangker | Abe, | Nelayan | IRT | SD | SMP SATAP NEGE RI | |
| 13 | Jupen | Tining | Nelayan | IRT | SD | SD | |
| 14 | Antong | Nanik | Nelayan | IRT | - | SD | |
| 15 | Musliadi | Paneng | Nelayan | IRT | SD | - | |
| 16 | Sari, | Kide, | Nelayan | IRT | - | - | |
| 17 | Abdul Rahim | Hapusaya | Nelayan | IRT | SMP SATAP NEGE RI | SD | |
| 18 | Mansur | Bak | Nelayan | IRT | SD | SD | |
| 19 | Telis | Nia | Nelayan | IRT | SD | - | |
| 20 | Jumi, | Baetu | Nelayan | IRT | - | - | |

| | | | | | | | |
|-----|----------|----------|---------|-----|----------------------------|----------------------------|--|
| 21 | Isel, | Kupik | Nelayan | IRT | - | - | |
| 22 | H. Nator | Talia, | Nelayan | IRT | - | - | |
| 23. | Laade | Ayu nura | Nelayan | IRT | SD | SD | |
| 24. | Marica | Pone, | Nelayan | IRT | - | - | |
| 25. | Laadi | Melsa | Nelayan | IRT | SMP SATAP NEGE RI | SMP SATAP NEGE RI | |
| 26. | Latobo | Mariska | Nelayan | IRT | SD | SD | |
| 27. | Mansuir | Lisa | Nelayan | IRT | SD | - | |
| 28. | Tino | Isa | Nelayan | IRT | SMA | SMP SATAP NEGE RI | |
| 29. | Mamat | Teeni | Nelayan | IRT | SMA | MTs | |
| 30. | Sumi | Hader | Nelayan | IRT | SD | - | |
| 31. | Jombang | Bonak | Nelayan | IRT | - | - | |
| 32. | Karimun | Nuru | Nelayan | IRT | - | - | |
| 33. | Kisung | Kinde, | Nelayan | IRT | - | - | |
| 34. | Laotte | Marisa | Nelayan | IRT | - | SD | |

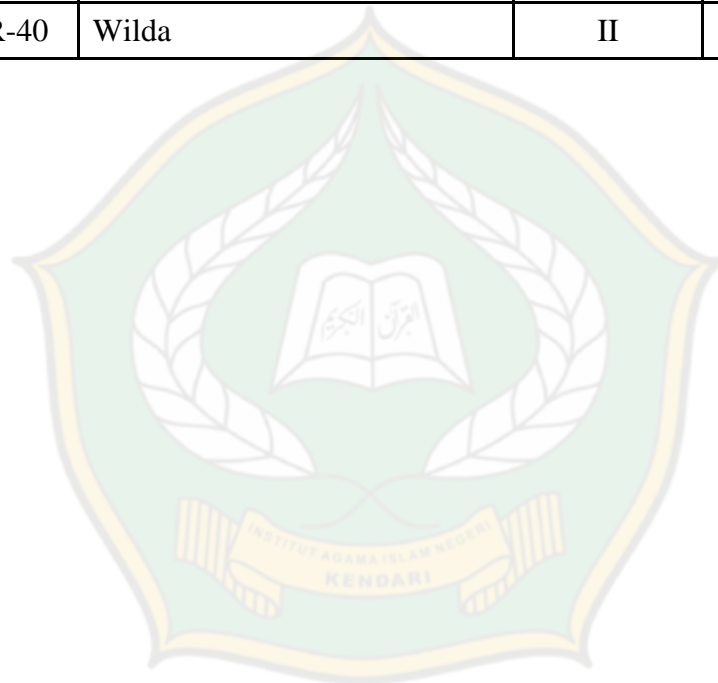
| | | | | | | | |
|-----|---------|---------|---------|-----|----------------------------|----------------------------|--|
| 35. | Popo | Melsa | Nelayan | IRT | - | SD | |
| 36. | Yanto | Nia | Nelayan | IRT | SMP SATAP NEGE RI | - | |
| 37. | Lamane | Intan | Nelayan | IRT | - | - | |
| 38. | Sombara | Pojo | Nelayan | IRT | SD | SD | |
| 39. | Tomi | Nuraini | Nelayan | IRT | SD | - | |
| 40. | Samudin | Erika | Nelayan | IRT | SMA | SMP SATAP NEGE RI | |



Lampiran 6**KELAS UJI COBA**

| No | KODE | NAMA | KELAS | L/P |
|-----------|-------------|---------------|--------------|------------|
| 1. | R-1 | Riwal almsah | I | L |
| 2. | R-2 | Rahmatia | I | P |
| 3. | R-3 | Cinta mentari | II | P |
| 4. | R-4 | Windi Sari | III | P |
| 5. | R-5 | Eni Rahmatia | I | P |
| 6. | R-6 | Tiara | II | P |
| 7. | R-7 | Mida | III | P |
| 8. | R-8 | Ladini | I | L |
| 9. | R-9 | Rusdin | II | L |
| 10. | R-10 | Perdin | III | L |
| 11. | R-11 | Deni | I | P |
| 12. | R-12 | Nabila | II | P |
| 13. | R-13 | Iren | III | L |
| 14. | R-14 | Bintang | I | P |
| 15. | R-15 | Bambang | II | L |
| 16. | R-16 | Sugiarto | III | L |
| 17. | R-17 | Ulang Sari | II | P |
| 18. | R-18 | Tomi | I | L |
| 19. | R-19 | Ilham | III | L |
| 20. | R-20 | Reno | I | L |
| 21. | R-21 | Serti | II | P |
| 22. | R-22 | Rianti | III | P |
| 23. | R-23 | Yanti | I | P |
| 24. | R-24 | Selsi | II | P |
| 25. | R-25 | Nabila | III | P |
| 26. | R-26 | Yanto | II | L |
| 27. | R-27 | Yusuf | I | L |
| 28. | R-28 | Erna | I | P |
| 29. | R-29 | Zul rahmat | II | L |
| 30. | R-30 | Pira | I | P |
| 31. | R-31 | Kardila | III | P |
| 32. | R-32 | Erna | II | P |

| | | | | |
|-----|------|---------------|-----|---|
| 33. | R-33 | Reno | I | L |
| 34. | R-34 | Reti | III | P |
| 35. | R-35 | Jojo saputra | I | L |
| 36. | R-36 | Maljidan | III | L |
| 37. | R-37 | Selma | II | P |
| 38. | R-38 | Joni S. | I | L |
| 39. | R-39 | Siti nuralini | III | P |
| 40. | R-40 | Wilda | II | P |



Lampiran 7**NILAI HASIL BELAJAR RESPONDEN**

| No | Nama | L/P | Kelas | NILAI |
|-----|----------------|-----|-------|-------|
| 1. | Riwal Alamsyah | L | I | 83 |
| 2. | Rahmatia | P | I | 83 |
| 3. | Cinta mentari | P | II | 83 |
| 4. | Windi Sari | P | III | 85 |
| 5. | Eni Rahmatia | P | I | 83 |
| 6. | Tiara | P | II | 87 |
| 7. | Mida | P | III | 87 |
| 8. | Ladini | L | I | 90 |
| 9. | Rusdin | L | II | 86 |
| 10. | Perdin | L | III | 90 |
| 11. | Deni | P | I | 88 |
| 12. | Nabila | P | II | 88 |
| 13. | Iren | L | III | 86 |
| 14. | Bintang | P | I | 85 |
| 15. | Bambang | L | II | 82 |
| 16. | Sugiarto | L | III | 87 |
| 17. | Ulang Sari | P | II | 95 |
| 18. | Tomi | L | I | 88 |
| 19. | Ilham | L | III | 85 |
| 20. | Reno | L | I | 85 |
| 21. | Serti | P | II | 90 |
| 22. | Rianti | P | III | 89 |
| 23. | Yanti | P | I | 92 |
| 24. | Selsi | P | II | 87 |
| 25. | Nabila | P | III | 87 |
| 26. | Yanto | L | II | 81 |
| 27. | Yusuf | L | I | 93 |

| | | | | |
|------------------|---------------|---|-----|--------|
| 28. | Erna | P | I | 90 |
| 29. | Zul Rahmat | L | II | 78 |
| 30. | Pira | P | I | 84 |
| 31. | Kardila | P | III | 87 |
| 32. | Erna | P | II | 86 |
| 33. | Reno | L | I | 80 |
| 34. | Reti | P | III | 87 |
| 35. | Jojo Saputra | L | I | 96 |
| 36. | Maljidan | L | III | 88 |
| 37. | Selma | P | II | 87 |
| 38. | Joni S. | L | I | 94 |
| 39. | Siti Nuralini | P | III | 84 |
| 40. | Wilda | P | II | 88 |
| Jumlah | | | | 3481 |
| Rata-Rata | | | | 87,025 |

Lampiran 8

HASIL NILAI ANGKET POLA DIDIK ORANG TUA

| Kode | BUTIR SOAL | | | | | | | | | | | | | | | | | | | | Jmlh |
|------|------------|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|------|
| | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 16 | 17 | 18 | 19 | 20 | 21 | 26 | 27 | |
| R-1 | 2 | 4 | 3 | 2 | 4 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 4 | 2 | 3 | 4 | 57 |
| R-2 | 3 | 3 | 2 | 4 | 4 | 3 | 4 | 2 | 3 | 2 | 4 | 4 | 2 | 3 | 2 | 4 | 4 | 4 | 3 | 4 | 64 |
| R-3 | 2 | 3 | 4 | 3 | 2 | 2 | 4 | 2 | 4 | 2 | 4 | 4 | 2 | 3 | 3 | 4 | 4 | 2 | 3 | 4 | 61 |
| R-4 | 4 | 3 | 2 | 3 | 3 | 3 | 4 | 2 | 3 | 3 | 4 | 3 | 3 | 2 | 3 | 2 | 1 | 4 | 2 | 3 | 57 |
| R-5 | 3 | 4 | 4 | 3 | 4 | 2 | 3 | 4 | 3 | 2 | 4 | 2 | 4 | 2 | 4 | 4 | 1 | 3 | 4 | 3 | 63 |
| R-6 | 4 | 3 | 4 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 4 | 4 | 3 | 2 | 2 | 3 | 3 | 4 | 4 | 3 | 65 |
| R-7 | 2 | 4 | 4 | 2 | 4 | 4 | 4 | 2 | 4 | 2 | 3 | 2 | 4 | 3 | 2 | 3 | 2 | 4 | 4 | 3 | 62 |
| R-8 | 2 | 3 | 2 | 4 | 4 | 2 | 3 | 2 | 3 | 3 | 3 | 2 | 4 | 4 | 2 | 2 | 4 | 2 | 4 | 3 | 58 |
| R-9 | 2 | 4 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 3 | 2 | 4 | 2 | 1 | 4 | 2 | 4 | 65 |
| R-10 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 56 |
| R-11 | 3 | 4 | 2 | 4 | 3 | 3 | 4 | 2 | 4 | 3 | 4 | 4 | 2 | 3 | 3 | 4 | 4 | 3 | 2 | 4 | 65 |
| R-12 | 4 | 3 | 2 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 4 | 4 | 3 | 2 | 2 | 3 | 3 | 4 | 4 | 3 | 63 |
| R-13 | 4 | 3 | 4 | 4 | 4 | 3 | 4 | 3 | 3 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 4 | 4 | 72 |
| R-14 | 3 | 4 | 2 | 4 | 2 | 4 | 3 | 2 | 4 | 3 | 4 | 3 | 4 | 4 | 3 | 4 | 4 | 4 | 2 | 3 | 66 |

| | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| R-15 | 3 | 3 | 4 | 4 | 2 | 2 | 3 | 3 | 4 | 2 | 3 | 4 | 2 | 2 | 4 | 3 | 3 | 4 | 3 | 4 | 62 |
| R-16 | 2 | 2 | 2 | 4 | 3 | 4 | 3 | 2 | 4 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 4 | 3 | 2 | 4 | 57 |
| R-17 | 4 | 3 | 4 | 4 | 3 | 2 | 4 | 3 | 4 | 2 | 4 | 2 | 4 | 2 | 2 | 4 | 4 | 2 | 3 | 4 | 64 |
| R-18 | 4 | 3 | 2 | 3 | 2 | 2 | 4 | 3 | 3 | 4 | 4 | 2 | 2 | 3 | 2 | 3 | 3 | 2 | 1 | 4 | 56 |
| R-19 | 3 | 3 | 2 | 3 | 4 | 2 | 3 | 2 | 4 | 2 | 3 | 3 | 3 | 3 | 2 | 4 | 2 | 3 | 2 | 2 | 55 |
| R-20 | 3 | 3 | 2 | 4 | 2 | 3 | 4 | 4 | 3 | 4 | 4 | 4 | 3 | 3 | 2 | 2 | 4 | 4 | 3 | 3 | 64 |
| R-21 | 3 | 3 | 2 | 4 | 2 | 2 | 3 | 4 | 2 | 2 | 4 | 3 | 3 | 3 | 4 | 4 | 4 | 3 | 2 | 3 | 60 |
| R-22 | 2 | 4 | 2 | 4 | 2 | 4 | 3 | 4 | 2 | 3 | 4 | 3 | 1 | 3 | 1 | 4 | 3 | 2 | 4 | 4 | 59 |
| R-23 | 2 | 3 | 2 | 3 | 4 | 4 | 3 | 1 | 4 | 4 | 4 | 4 | 4 | 2 | 4 | 2 | 1 | 2 | 2 | 3 | 58 |
| R-24 | 3 | 4 | 3 | 4 | 1 | 2 | 3 | 3 | 2 | 2 | 4 | 3 | 4 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 57 |
| R-25 | 2 | 4 | 2 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 2 | 1 | 2 | 2 | 4 | 62 |
| R-26 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 4 | 4 | 2 | 4 | 4 | 4 | 4 | 2 | 3 | 63 |
| R-27 | 4 | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 4 | 4 | 2 | 2 | 2 | 4 | 4 | 4 | 2 | 3 | 57 |
| R-28 | 2 | 4 | 2 | 2 | 4 | 2 | 3 | 4 | 2 | 4 | 2 | 4 | 4 | 2 | 4 | 2 | 2 | 4 | 2 | 3 | 58 |
| R-29 | 3 | 2 | 4 | 4 | 2 | 3 | 4 | 4 | 4 | 2 | 3 | 4 | 3 | 3 | 4 | 4 | 1 | 3 | 4 | 4 | 65 |
| R-30 | 4 | 3 | 2 | 3 | 4 | 2 | 4 | 2 | 4 | 2 | 2 | 3 | 4 | 4 | 1 | 4 | 3 | 3 | 3 | 4 | 61 |
| R-31 | 4 | 3 | 2 | 4 | 4 | 2 | 3 | 1 | 4 | 4 | 2 | 3 | 1 | 4 | 3 | 2 | 1 | 4 | 4 | 4 | 59 |
| R-32 | 4 | 3 | 4 | 4 | 4 | 3 | 4 | 4 | 3 | 2 | 4 | 4 | 2 | 3 | 4 | 4 | 4 | 2 | 4 | 4 | 70 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------|-----------|
| R-33 | 4 | 3 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 2 | 2 | 4 | 4 | 4 | 3 | 2 | 4 | 3 | 68 |
| R-34 | 4 | 4 | 2 | 3 | 4 | 4 | 4 | 2 | 3 | 4 | 4 | 3 | 3 | 4 | 4 | 2 | 4 | 3 | 3 | 4 | 68 | |
| R-35 | 4 | 3 | 3 | 2 | 4 | 4 | 4 | 3 | 2 | 3 | 4 | 4 | 4 | 2 | 4 | 2 | 4 | 4 | 1 | 1 | 62 | |
| R-36 | 3 | 3 | 2 | 4 | 4 | 3 | 3 | 4 | 4 | 3 | 4 | 3 | 3 | 4 | 2 | 4 | 4 | 4 | 3 | 4 | 68 | |
| R-37 | 4 | 2 | 4 | 3 | 2 | 4 | 2 | 4 | 4 | 2 | 4 | 4 | 3 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 68 | |
| R-38 | 3 | 3 | 4 | 2 | 3 | 4 | 4 | 2 | 3 | 3 | 2 | 3 | 3 | 4 | 4 | 3 | 1 | 3 | 3 | 4 | 61 | |
| R-39 | 4 | 4 | 4 | 4 | 2 | 3 | 4 | 2 | 3 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 2 | 3 | 70 | |
| R-40 | 3 | 4 | 2 | 3 | 2 | 2 | 4 | 2 | 4 | 2 | 3 | 3 | 3 | 2 | 2 | 3 | 4 | 2 | 4 | 4 | 58 | |
| Jumlah | 126 | 130 | 111 | 134 | 123 | 116 | 140 | 110 | 131 | 109 | 140 | 133 | 120 | 117 | 120 | 127 | 117 | 126 | 116 | 138 | 2484 | |



LAMPIRAN 9

HASIL VALIDITAS ANGKET UJI COBA TAHAP 1

| Kode | BUTIR SOAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Jmlh | |
|-------------|------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | |
| Nilai Teori | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 120 |
| R-1 | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 2 | 3 | 1 | 1 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 4 | 4 | 2 | 1 | 4 | 4 | 3 | 3 | 68 | |
| R-2 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 2 | 3 | 1 | 1 | 1 | 3 | 4 | 4 | 2 | 3 | 4 | 3 | 1 | 2 | 2 | 3 | 4 | 2 | 1 | 4 | 4 | 3 | 3 | 78 | |
| R-3 | 3 | 2 | 2 | 4 | 3 | 1 | 3 | 3 | 3 | 2 | 2 | 2 | 4 | 2 | 4 | 1 | 3 | 1 | 2 | 1 | 4 | 3 | 1 | 1 | 4 | 2 | 4 | 2 | 1 | 3 | 71 | |
| R-4 | 1 | 3 | 3 | 2 | 4 | 4 | 4 | 4 | 3 | 2 | 4 | 2 | 4 | 1 | 1 | 2 | 3 | 3 | 4 | 2 | 4 | 2 | 4 | 3 | 2 | 4 | 4 | 3 | 2 | 3 | 89 | |
| R-5 | 3 | 4 | 4 | 3 | 2 | 4 | 3 | 4 | 4 | 2 | 2 | 2 | 4 | 4 | 3 | 3 | 3 | 1 | 4 | 1 | 4 | 4 | 4 | 3 | 1 | 4 | 4 | 3 | 3 | 3 | 91 | |
| R-6 | 1 | 2 | 3 | 2 | 3 | 3 | 4 | 4 | 3 | 2 | 4 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 4 | 2 | 4 | 2 | 4 | 3 | 3 | 4 | 4 | 4 | 1 | 3 | 86 | |
| R-7 | 2 | 4 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 76 | |
| R-8 | 1 | 2 | 3 | 4 | 1 | 2 | 2 | 2 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 3 | 2 | 4 | 4 | 4 | 4 | 1 | 4 | 4 | 2 | 4 | 4 | 1 | 1 | 90 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------|
| R-9 | 1 | 4 | 3 | 3 | 2 | 3 | 3 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 3 | 4 | 3 | 3 | 4 | 4 | 2 | 2 | 1 | 3 | 2 | 4 | 4 | 4 | 1 | 3 | 90 |
| R-10 | 1 | 2 | 3 | 1 | 3 | 3 | 2 | 4 | 4 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 1 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 4 | 2 | 3 | 76 | |
| R-11 | 1 | 4 | 3 | 1 | 4 | 2 | 3 | 1 | 4 | 2 | 1 | 2 | 3 | 3 | 1 | 3 | 2 | 2 | 2 | 4 | 4 | 3 | 4 | 4 | 1 | 4 | 4 | 4 | 4 | 4 | 84 |
| R-12 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 4 | 4 | 4 | 2 | 2 | 2 | 4 | 4 | 3 | 57 |
| R-13 | 1 | 2 | 4 | 2 | 2 | 3 | 3 | 2 | 4 | 2 | 3 | 2 | 4 | 4 | 3 | 2 | 2 | 3 | 4 | 2 | 4 | 2 | 3 | 3 | 4 | 4 | 4 | 4 | 1 | 2 | 84 |
| R-14 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 2 | 4 | 2 | 3 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 3 | 2 | 3 | 4 | 3 | 1 | 3 | 77 |
| R-15 | 1 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 1 | 3 | 3 | 4 | 3 | 4 | 4 | 2 | 1 | 4 | 2 | 4 | 4 | 4 | 2 | 1 | 80 |
| R-16 | 3 | 3 | 2 | 2 | 4 | 4 | 1 | 1 | 4 | 1 | 1 | 1 | 3 | 1 | 3 | 4 | 4 | 2 | 1 | 1 | 4 | 2 | 4 | 1 | 2 | 1 | 4 | 2 | 1 | 3 | 72 |
| R-17 | 1 | 3 | 4 | 2 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 3 | 4 | 3 | 3 | 3 | 2 | 3 | 2 | 4 | 4 | 2 | 4 | 4 | 4 | 1 | 3 | 94 |
| R-18 | 1 | 2 | 3 | 1 | 3 | 1 | 3 | 2 | 2 | 2 | 2 | 2 | 1 | 4 | 2 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 4 | 4 | 3 | 4 | 3 | 3 | 1 | 3 | 75 |
| R-19 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 4 | 2 | 2 | 1 | 3 | 4 | 1 | 2 | 1 | 2 | 4 | 1 | 4 | 2 | 1 | 3 | 4 | 4 | 4 | 3 | 1 | 3 | 75 |
| R-20 | 1 | 3 | 2 | 2 | 2 | 4 | 2 | 1 | 3 | 2 | 2 | 2 | 4 | 3 | 3 | 3 | 3 | 4 | 3 | 1 | 2 | 3 | 2 | 3 | 4 | 2 | 2 | 3 | 1 | 2 | 74 |
| R-21 | 1 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 1 | 2 | 4 | 4 | 2 | 3 | 4 | 3 | 3 | 1 | 3 | 3 | 2 | 4 | 3 | 2 | 2 | 4 | 1 | 2 | 76 |
| R-22 | 2 | 4 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 2 | 3 | 1 | 4 | 4 | 2 | 3 | 4 | 4 | 3 | 3 | 91 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------|
| R-23 | 1 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 4 | 1 | 4 | 1 | 3 | 4 | 4 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 4 | 3 | 3 | 2 | 1 | 3 | 1 | 3 | 76 |
| R-24 | 1 | 2 | 3 | 2 | 3 | 2 | 2 | 1 | 4 | 1 | 2 | 1 | 3 | 3 | 4 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 3 | 2 | 2 | 1 | 4 | 2 | 2 | 67 | |
| R-25 | 1 | 2 | 3 | 1 | 1 | 1 | 2 | 2 | 3 | 2 | 1 | 2 | 3 | 2 | 1 | 3 | 3 | 2 | 1 | 2 | 2 | 3 | 4 | 4 | 1 | 3 | 3 | 4 | 1 | 2 | 66 |
| R-26 | 2 | 4 | 3 | 2 | 3 | 3 | 2 | 1 | 3 | 2 | 3 | 2 | 3 | 4 | 1 | 4 | 3 | 4 | 2 | 1 | 2 | 1 | 4 | 4 | 2 | 4 | 3 | 4 | 1 | 1 | 78 |
| R-27 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 4 | 3 | 2 | 4 | 3 | 4 | 4 | 2 | 4 | 4 | 1 | 4 | 3 | 4 | 4 | 2 | 1 | 2 | 83 |
| R-28 | 1 | 3 | 4 | 3 | 3 | 3 | 2 | 4 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 4 | 4 | 2 | 3 | 3 | 2 | 4 | 4 | 3 | 4 | 4 | 3 | 1 | 3 | 92 |
| R-29 | 1 | 4 | 4 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 4 | 4 | 4 | 2 | 2 | 3 | 2 | 4 | 4 | 3 | 4 | 4 | 3 | 4 | 2 | 93 |
| R-30 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 3 | 2 | 4 | 3 | 3 | 2 | 4 | 1 | 2 | 72 |
| R-31 | 2 | 2 | 4 | 3 | 3 | 4 | 2 | 2 | 4 | 3 | 2 | 2 | 3 | 4 | 2 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 1 | 3 | 94 |
| R-32 | 1 | 3 | 2 | 2 | 3 | 3 | 2 | 1 | 3 | 2 | 2 | 2 | 4 | 2 | 2 | 1 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 70 |
| R-33 | 2 | 2 | 4 | 2 | 3 | 3 | 2 | 4 | 4 | 2 | 3 | 2 | 4 | 2 | 2 | 1 | 3 | 2 | 3 | 1 | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 4 | 1 | 3 | 83 |
| R-34 | 1 | 2 | 4 | 4 | 4 | 3 | 2 | 3 | 4 | 2 | 4 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 2 | 4 | 1 | 2 | 4 | 4 | 4 | 1 | 2 | 95 |
| R-35 | 1 | 3 | 3 | 1 | 2 | 3 | 2 | 1 | 3 | 2 | 1 | 2 | 3 | 4 | 4 | 2 | 1 | 3 | 2 | 1 | 4 | 3 | 4 | 4 | 4 | 3 | 4 | 4 | 1 | 3 | 78 |
| R-36 | 1 | 4 | 2 | 2 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 4 | 3 | 4 | 3 | 3 | 3 | 1 | 3 | 3 | 4 | 2 | 4 | 4 | 4 | 1 | 3 | 82 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------------|----------|----------|----------|-------------|----------|----------|----------|----------|----------|----------|---------|----------|----------|-------------|----------|----------|----------|----------|----------|-------------|-------------|-------------|-------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|-----------|
| R-37 | 1 | 3 | 3 | 2 | 3 | 3 | 2 | 1 | 3 | 2 | 2 | 2 | 2 | 4 | 3 | 2 | 2 | 2 | 3 | 2 | 4 | 3 | 4 | 4 | 3 | 4 | 4 | 4 | 1 | 2 | 80 | |
| R-38 | 1 | 2 | 3 | 2 | 3 | 3 | 1 | 1 | 3 | 2 | 2 | 1 | 4 | 3 | 1 | 3 | 2 | 3 | 2 | 1 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 3 | 4 | 1 | 3 | 77 |
| R-39 | 1 | 3 | 3 | 2 | 3 | 3 | 1 | 1 | 3 | 2 | 2 | 2 | 4 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 3 | 3 | 84 | |
| R-40 | 2 | 4 | 4 | 2 | 3 | 3 | 2 | 2 | 3 | 2 | 4 | 4 | 4 | 2 | 2 | 3 | 2 | 4 | 4 | 1 | 2 | 2 | 3 | 3 | 2 | 4 | 4 | 4 | 1 | 3 | 86 | |
| Jumlah | 58 | 110 | 118 | 87 | 108 | 111 | 96 | 90 | 93 | 85 | 98 | 79 | 134 | 122 | 99 | 107 | 106 | 112 | 111 | 79 | 122 | 102 | 130 | 135 | 104 | 128 | 136 | 143 | 66 | 104 | 3210 | |
| Korelasi | -0,02328 | 0,387514 | 0,732663 | 0,411506 | -0,03262 | 0,521401 | 0,364869 | 0,565221 | 0,220819 | 0,661416 | 0,640327 | 0,61382 | 0,476346 | 0,375648 | 0,272638 | 0,532086 | 0,479975 | 0,430425 | 0,633792 | 0,508681 | 0,370548 | -0,222202 | 0,189783 | 0,014544 | 0,08227 | 0,566936 | -0,08001 | -0,30781 | 0,051213 | - | | |
| Rtabel | 0,304 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kriteria | Tidak Valid | Valid | Valid | Valid | Tidak Valid | Valid | Valid | Valid | Valid | Valid | Valid | Valid | Valid | Valid | Tidak Valid | Valid | Valid | Valid | Valid | Valid | Tidak Valid | Tidak Valid | Tidak Valid | Tidak Valid | Tidak Valid | Valid | Tidak Valid | Tidak Valid | Tidak Valid | Tidak Valid | - | |

Lampiran 10

MANUAL PERHITUNGAN UJI VALIDITAS ANGKET POLA DIDIK ORANG TUA

Rumus:

$$r_{xy} = \frac{n(\sum XY) - (\sum X)(\sum Y)}{\sqrt{\{n \cdot \sum X^2 - (\sum X)^2\} \cdot \{n \cdot \sum Y^2 - (\sum Y)^2\}}}$$

Keterangan:

r_{xy} : Koefisien korelasi antara X dan Y,

n : Banyaknya subjek/peserta didik yang diteliti

$\sum X$: Jumlah skor tiap butir soal

$\sum Y$: Jumlah skor total

$\sum X^2$: Jumlah kuadrat skor butir soal

$\sum Y^2$: Jumlah kuadrat skor total

Kriteria:

Apabila $r_{xy} > r_{tabel}$ maka butir soal valid

Perhitungan

Ini contoh perhitungan validitas pada butir soal instrumen angket pola didik orang tua nomor 2, untuk butir selanjutnya dihitung dengan cara yang sama dengan diperoleh data dari table analisis butir soal.

Tabel Bantu Perhitungan

| No | Kode | Butir Soal no. | Skor Total | x² | y² | XY |
|-----------|-------------|---------------------------|-----------------------|----------------------|----------------------|-----------|
| 1. | R-1 | 3 | 39 | 9 | 1521 | 117 |
| 2. | R-2 | 2 | 47 | 4 | 2209 | 94 |
| 3. | R-3 | 2 | 48 | 4 | 2304 | 96 |
| 4. | R-4 | 3 | 62 | 9 | 3844 | 186 |
| 5. | R-5 | 4 | 64 | 16 | 4096 | 256 |
| 6. | R-6 | 2 | 59 | 4 | 3481 | 118 |
| 7. | R-7 | 4 | 52 | 16 | 2704 | 208 |
| 8. | R-8 | 2 | 67 | 4 | 4489 | 134 |
| 9. | R-9 | 4 | 68 | 16 | 4624 | 272 |
| 10. | R-10 | 2 | 50 | 4 | 2500 | 100 |
| 11. | R-11 | 4 | 54 | 16 | 2916 | 216 |
| 12. | R-12 | 1 | 27 | 1 | 729 | 27 |
| 13. | R-13 | 2 | 60 | 4 | 3600 | 120 |
| 14. | R-14 | 2 | 51 | 4 | 2601 | 102 |
| 15. | R-15 | 3 | 61 | 9 | 3721 | 183 |
| 16. | R-16 | 3 | 45 | 9 | 2025 | 135 |
| 17. | R-17 | 3 | 70 | 9 | 4900 | 210 |
| 18. | R-18 | 2 | 47 | 4 | 2209 | 94 |
| 19. | R-19 | 2 | 52 | 4 | 2704 | 104 |
| 20. | R-20 | 3 | 50 | 9 | 2500 | 150 |
| 21. | R-21 | 2 | 51 | 4 | 2601 | 102 |
| 22. | R-22 | 4 | 63 | 16 | 3969 | 252 |

| | | | | | | |
|---------------|------|------------|-------------|------------|---------------|----------------|
| 23. | R-23 | 2 | 46 | 4 | 2116 | 92 |
| 24. | R-24 | 2 | 42 | 4 | 1764 | 84 |
| 25. | R-25 | 2 | 43 | 4 | 1849 | 86 |
| 25. | R-26 | 4 | 55 | 16 | 3025 | 220 |
| 27. | R-27 | 3 | 60 | 9 | 3600 | 180 |
| 28. | R-28 | 3 | 65 | 9 | 4225 | 195 |
| 29. | R-29 | 4 | 67 | 16 | 4489 | 268 |
| 30. | R-30 | 3 | 44 | 9 | 1936 | 132 |
| 31. | R-31 | 2 | 65 | 4 | 4225 | 130 |
| 32. | R-32 | 3 | 46 | 9 | 2116 | 138 |
| 33. | R-33 | 2 | 37 | 4 | 2809 | 106 |
| 34. | R-34 | 2 | 70 | 4 | 4900 | 140 |
| 35. | R-35 | 3 | 48 | 9 | 2304 | 144 |
| 36. | R-36 | 4 | 56 | 16 | 3136 | 224 |
| 37. | R-37 | 3 | 52 | 9 | 2704 | 156 |
| 38. | R-38 | 2 | 49 | 4 | 2401 | 98 |
| 39. | R-39 | 3 | 52 | 9 | 2704 | 156 |
| 40. | R-40 | 4 | 61 | 16 | 3721 | 244 |
| Jumlah | | 110 | 2161 | 330 | 120271 | 6069,00 |

$$r_{xy} = \frac{n(\sum XY) - (\sum X)(\sum Y)}{\sqrt{\{n \cdot \sum X^2 - (\sum X)^2\} \cdot \{n \cdot \sum Y^2 - (\sum Y)^2\}}}$$

$$r_{xy} = \frac{30(6069) - (110)(2161)}{\sqrt{\{40 \cdot 330 - (110)^2\} \cdot \{40 \cdot 120271 - (2161)^2\}}}$$

$$r_{xy} = \frac{242760 - 237710}{\sqrt{\{1100\} \cdot \{140919\}}}$$

$$r_{xy} = \frac{5050}{12450.33734}$$

$$r_{xy} = 0,406$$

Pada taraf signifikan 5% dengan N= 40, diperoleh tabel= 0,304. Karena hitung> tabel, maka dapat disimpulkan bahwa butir tersebut **valid**



Lampiran 11

HASIL RELIABILITAS ANGGKET POLA DIDIK ORANG TUA

| Kode | BUTIR SOAL | | | | | | | | | | | | | | | | | | | | Jmlh |
|------|------------|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|
| | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 16 | 17 | 18 | 19 | 20 | 21 | 26 | 27 | |
| R-1 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 1 | 1 | 1 | 4 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 4 | 39 |
| R-2 | 2 | 3 | 2 | 3 | 2 | 2 | 3 | 1 | 1 | 1 | 3 | 4 | 2 | 3 | 4 | 3 | 1 | 2 | 1 | 4 | 47 |
| R-3 | 2 | 2 | 4 | 1 | 3 | 3 | 3 | 2 | 2 | 2 | 4 | 2 | 1 | 3 | 1 | 2 | 1 | 4 | 2 | 4 | 48 |
| R-4 | 3 | 3 | 2 | 4 | 4 | 4 | 3 | 2 | 4 | 2 | 4 | 1 | 2 | 3 | 3 | 4 | 2 | 4 | 4 | 4 | 62 |
| R-5 | 4 | 4 | 3 | 4 | 3 | 4 | 4 | 2 | 2 | 2 | 4 | 4 | 3 | 3 | 1 | 4 | 1 | 4 | 4 | 4 | 64 |
| R-6 | 2 | 3 | 2 | 3 | 4 | 4 | 3 | 2 | 4 | 2 | 3 | 3 | 2 | 2 | 2 | 4 | 2 | 4 | 4 | 4 | 59 |
| R-7 | 4 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 3 | 52 |
| R-8 | 2 | 3 | 4 | 2 | 2 | 2 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 3 | 2 | 4 | 4 | 4 | 4 | 4 | 67 |
| R-9 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 3 | 4 | 4 | 2 | 4 | 4 | 68 |
| R-10 | 2 | 3 | 1 | 3 | 2 | 4 | 4 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 2 | 50 |
| R-11 | 4 | 3 | 1 | 2 | 3 | 1 | 4 | 2 | 1 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 54 |
| R-12 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 27 |
| R-13 | 2 | 4 | 2 | 3 | 3 | 2 | 4 | 2 | 3 | 2 | 4 | 4 | 2 | 2 | 3 | 4 | 2 | 4 | 4 | 4 | 60 |
| R-14 | 2 | 3 | 2 | 3 | 3 | 2 | 4 | 2 | 3 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 4 | 51 |

| | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| R-15 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 4 | 3 | 4 | 4 | 4 | 4 | 61 |
| R-16 | 3 | 2 | 2 | 4 | 1 | 1 | 4 | 1 | 1 | 1 | 3 | 1 | 4 | 4 | 2 | 1 | 1 | 4 | 1 | 4 | 45 |
| R-17 | 3 | 4 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 3 | 3 | 3 | 2 | 3 | 4 | 4 | 70 |
| R-18 | 2 | 3 | 1 | 1 | 3 | 2 | 2 | 2 | 2 | 2 | 1 | 4 | 2 | 3 | 3 | 2 | 2 | 3 | 4 | 3 | 47 |
| R-19 | 2 | 2 | 2 | 3 | 3 | 2 | 4 | 2 | 2 | 1 | 3 | 4 | 2 | 1 | 2 | 4 | 1 | 4 | 4 | 4 | 52 |
| R-20 | 3 | 2 | 2 | 4 | 2 | 1 | 3 | 2 | 2 | 2 | 4 | 3 | 3 | 3 | 4 | 3 | 1 | 2 | 2 | 2 | 50 |
| R-21 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 1 | 2 | 4 | 4 | 3 | 4 | 3 | 3 | 1 | 3 | 2 | 2 | 51 |
| R-22 | 4 | 3 | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 4 | 4 | 4 | 4 | 4 | 3 | 2 | 3 | 3 | 4 | 63 |
| R-23 | 2 | 3 | 2 | 2 | 2 | 2 | 4 | 1 | 4 | 1 | 3 | 4 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 1 | 46 |
| R-24 | 2 | 3 | 2 | 2 | 2 | 1 | 4 | 1 | 2 | 1 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 1 | 42 |
| R-25 | 2 | 3 | 1 | 1 | 2 | 2 | 3 | 2 | 1 | 2 | 3 | 2 | 3 | 3 | 2 | 1 | 2 | 2 | 3 | 3 | 43 |
| R-26 | 4 | 3 | 2 | 3 | 2 | 1 | 3 | 2 | 3 | 2 | 3 | 4 | 4 | 3 | 4 | 2 | 1 | 2 | 4 | 3 | 55 |
| R-27 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 4 | 3 | 4 | 3 | 4 | 4 | 2 | 4 | 4 | 4 | 60 |
| R-28 | 3 | 4 | 3 | 3 | 2 | 4 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 4 | 4 | 2 | 3 | 3 | 4 | 4 | 65 |
| R-29 | 4 | 4 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 4 | 3 | 4 | 4 | 4 | 2 | 2 | 3 | 4 | 4 | 67 |
| R-30 | 3 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 1 | 1 | 2 | 3 | 2 | 44 |
| R-31 | 2 | 4 | 3 | 4 | 2 | 2 | 4 | 3 | 2 | 2 | 3 | 4 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 65 |
| R-32 | 3 | 2 | 2 | 3 | 2 | 1 | 3 | 2 | 2 | 2 | 4 | 2 | 1 | 2 | 3 | 3 | 2 | 2 | 2 | 3 | 46 |

| | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------|
| R-33 | 2 | 4 | 2 | 3 | 2 | 4 | 4 | 2 | 3 | 2 | 4 | 2 | 1 | 3 | 2 | 3 | 1 | 3 | 3 | 3 | 53 |
| R-34 | 2 | 4 | 4 | 3 | 2 | 3 | 4 | 2 | 4 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 70 |
| R-35 | 3 | 3 | 1 | 3 | 2 | 1 | 3 | 2 | 1 | 2 | 3 | 4 | 2 | 1 | 3 | 2 | 1 | 4 | 3 | 4 | 48 |
| R-36 | 4 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 1 | 4 | 4 | 56 |
| R-37 | 3 | 3 | 2 | 3 | 2 | 1 | 3 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 3 | 2 | 4 | 4 | 4 | 52 |
| R-38 | 2 | 3 | 2 | 3 | 1 | 1 | 3 | 2 | 2 | 1 | 4 | 3 | 3 | 2 | 3 | 2 | 1 | 4 | 4 | 3 | 49 |
| R-39 | 3 | 3 | 2 | 3 | 1 | 1 | 3 | 2 | 2 | 2 | 4 | 3 | 3 | 2 | 3 | 3 | 2 | 4 | 4 | 3 | 52 |
| R-40 | 4 | 4 | 2 | 3 | 2 | 2 | 3 | 2 | 4 | 4 | 4 | 2 | 3 | 2 | 4 | 4 | 1 | 2 | 4 | 4 | 61 |
| Jumlah | 110 | 118 | 87 | 111 | 96 | 89 | 131 | 85 | 98 | 79 | 134 | 122 | 107 | 106 | 112 | 111 | 79 | 122 | 128 | 136 | 2161 |
| Varians | 0,6875 | 0,5475 | 0,5443 | 0,6743 | 0,5900 | 0,1243 | 0,4493 | 0,5093 | 0,0475 | 0,4243 | 0,6775 | 0,7975 | 0,8693 | 0,7775 | 0,8600 | 0,9243 | 0,0743 | 0,8475 | 0,0100 | 0,7900 | 90,3326 |
| R_{hitung} | 0,870645735 | | | | | | | | | | | | | | | | | | | | |
| R_{tabel} | 0,304 | | | | | | | | | | | | | | | | | | | | |
| | Reliabel | | | | | | | | | | | | | | | | | | | | |

Lampiran 12

MANUAL PERHITUNGAN UJI RELIABILITAS

Rumus:

$$r_{11} = \frac{n}{(n-1)} \left\{ 1 - \frac{\sum s_i^2}{s_i^2} \right\}$$

Keterangan:

r_{11} : Koefisien reliabilitas tes

n : Banyaknya butir item yang dikeluarkan dalam tes

1 : Bilangan konstanta

$\sum s_i^2$: Jumlah varians skor dari tiap-tiap butir item

s_i^2 : Varian total

Kriteria:

Apabila $r_{hitung} > r_{tabel}$ maka soal dikatakan reliabel. Dan jika $r_{hitung} > 0,7$ maka soal dikatakan **memiliki reliabilitas yang tinggi**.

Perhitungan:

Berdasarkan tabel awal pada lampiran sebelumnya. Didapatkan data sebagai berikut:

$$\sum S_1^2 = S_i^2 = \frac{\sum_{i=1}^n (x - \bar{x})^2}{n-1}$$

$$\sum S_1^2 = S_i^2 = \frac{\sum_{i=1}^n (x - 54,025)^2}{40-1}$$

$$= \frac{3522,975}{39}$$

$$= 90,3326$$

Jumlah varians skor dari tiap butir soal:

$$\sum s_i^2 = S_2^2 + S_3^2 + S_4^2 + S_5^2 + S_6^2 + S_7^2 + S_8^2 + S_9^2 + S_{10}^2 + S_{11}^2 + S_{12}^2 + S_{13}^2 + S_{14}^2 + S_{15}^2 + S_{16}^2 + S_{17}^2 + S_{18}^2 + S_{19}^2 + S_{20}^2 + S_{21}^2 + S_{22}^2 + S_{23}^2 + S_{24}^2 + S_{25}^2 + S_{26}^2 + S_{27}^2$$

$$\begin{aligned} \sum s_i^2 &= 0,6875 + 0,5475 + 0,5443 + 0,6743 + 0,600 + 1,1243 + 0,4493 + 0,5093 \\ &+ 1,0475 + 0,4243 + 0,6775 + 0,7975 + 0,8693 + 0,7775 + 0,8600 + 0,9243 \\ &+ 1,0743 + 0,8475 + 1,0100 + 0,7900 \\ &= 15,2362 \end{aligned}$$

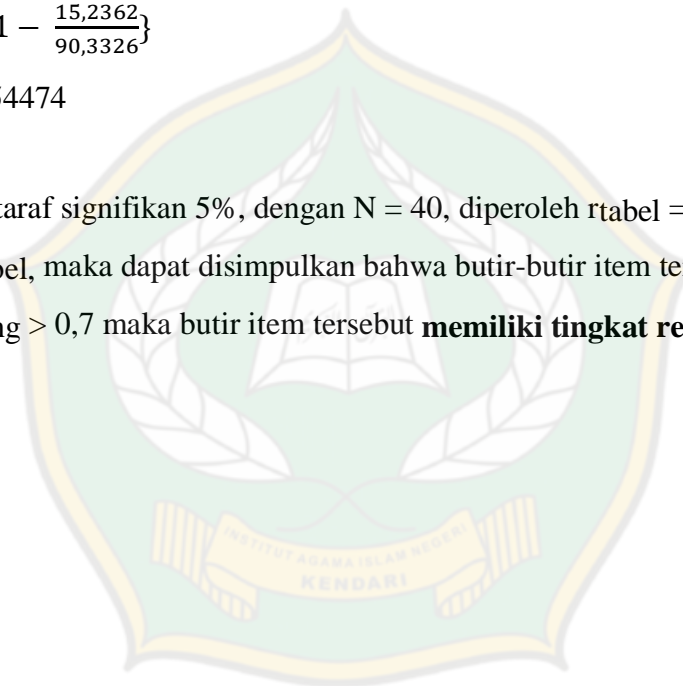
Tingkat reliabilitas

$$r_{11} = \frac{n}{(n-1)} \left\{ 1 - \frac{\sum s_i^2}{s_i^2} \right\}$$

$$r_{11} = \frac{40}{(40-1)} \left\{ 1 - \frac{15,2362}{90,3326} \right\}$$

$$r_{11} = 0,852754474$$

Pada taraf signifikan 5%, dengan N = 40, diperoleh $r_{tabel} = 0,304$. Karena $r_{hitung} > r_{tabel}$, maka dapat disimpulkan bahwa butir-butir item tersebut **reliabel**. Karena $r_{hitung} > 0,7$ maka butir item tersebut **memiliki tingkat reliabilitas yang tinggi**.



Tabel Bantu Reliabilitas

| KODE | BUTIR SOAL | | | | | | | | | | | | | | | | | | | | Jmlh | x-X | $(x - X)^2$ |
|------|------------|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|------|---------|-------------|
| | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 16 | 17 | 18 | 19 | 20 | 21 | 26 | 27 | | | |
| R-1 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 1 | 1 | 1 | 4 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 4 | 39 | -15,025 | 225,75063 |
| R-2 | 2 | 3 | 2 | 3 | 2 | 2 | 3 | 1 | 1 | 1 | 3 | 4 | 2 | 3 | 4 | 3 | 1 | 2 | 1 | 4 | 47 | -7,025 | 49,350625 |
| R-3 | 2 | 2 | 4 | 1 | 3 | 3 | 3 | 2 | 2 | 2 | 4 | 2 | 1 | 3 | 1 | 2 | 1 | 4 | 2 | 4 | 48 | -6,025 | 36,300625 |
| R-4 | 3 | 3 | 2 | 4 | 4 | 4 | 3 | 2 | 4 | 2 | 4 | 1 | 2 | 3 | 3 | 4 | 2 | 4 | 4 | 4 | 62 | 7,975 | 63,600625 |
| R-5 | 4 | 4 | 3 | 4 | 3 | 4 | 4 | 2 | 2 | 2 | 4 | 4 | 3 | 3 | 1 | 4 | 1 | 4 | 4 | 4 | 64 | 9,975 | 99,500625 |
| R-6 | 2 | 3 | 2 | 3 | 4 | 4 | 3 | 2 | 4 | 2 | 3 | 3 | 2 | 2 | 2 | 4 | 2 | 4 | 4 | 4 | 59 | 4,975 | 24,750625 |
| R-7 | 4 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 3 | 52 | -2,025 | 4,100625 |
| R-8 | 2 | 3 | 4 | 2 | 2 | 2 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 3 | 2 | 4 | 4 | 4 | 4 | 4 | 67 | 12,975 | 168,35063 |
| R-9 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 3 | 4 | 4 | 2 | 4 | 4 | 68 | 13,975 | 195,30063 |
| R10 | 2 | 3 | 1 | 3 | 2 | 4 | 4 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 2 | 50 | -4,025 | 16,200625 |
| R11 | 4 | 3 | 1 | 2 | 3 | 1 | 4 | 2 | 1 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 54 | -0,025 | 0,000625 |
| R12 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 27 | -27,025 | 730,35063 |
| R13 | 2 | 4 | 2 | 3 | 3 | 2 | 4 | 2 | 3 | 2 | 4 | 4 | 2 | 2 | 3 | 4 | 2 | 4 | 4 | 4 | 60 | 5,975 | 35,700625 |
| R14 | 2 | 3 | 2 | 3 | 3 | 2 | 4 | 2 | 3 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 4 | 51 | -3,025 | 9,150625 |
| R15 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 4 | 3 | 4 | 4 | 4 | 4 | 61 | 6,975 | 48,650625 |
| R16 | 3 | 2 | 2 | 4 | 1 | 1 | 4 | 1 | 1 | 1 | 3 | 1 | 4 | 4 | 2 | 1 | 1 | 4 | 1 | 4 | 45 | -9,025 | 81,450625 |
| R17 | 3 | 4 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 3 | 3 | 3 | 2 | 3 | 4 | 4 | 70 | 15,975 | 255,20063 |
| R-18 | 2 | 3 | 1 | 1 | 3 | 2 | 2 | 2 | 2 | 2 | 1 | 4 | 2 | 3 | 3 | 2 | 2 | 3 | 4 | 3 | 47 | -7,025 | 49,350625 |
| R-19 | 2 | 2 | 2 | 3 | 3 | 2 | 4 | 2 | 2 | 1 | 3 | 4 | 2 | 1 | 2 | 4 | 1 | 4 | 4 | 4 | 52 | -2,025 | 4,100625 |
| R-20 | 3 | 2 | 2 | 4 | 2 | 1 | 3 | 2 | 2 | 2 | 4 | 3 | 3 | 3 | 4 | 3 | 1 | 2 | 2 | 2 | 50 | -4,025 | 16,200625 |
| R-21 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 1 | 2 | 4 | 4 | 3 | 4 | 3 | 3 | 1 | 3 | 2 | 2 | 51 | -3,025 | 9,150625 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|-----|-----|----|-----|----|----|-----|----|----|----|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|---------|-----------|-----------|
| R-22 | 4 | 3 | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 4 | 4 | 4 | 4 | 4 | 3 | 2 | 3 | 3 | 4 | 63 | 8,975 | 80,550625 |
| R-23 | 2 | 3 | 2 | 2 | 2 | 2 | 4 | 1 | 4 | 1 | 3 | 4 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 1 | 46 | -8,025 | 64,400625 |
| R-24 | 2 | 3 | 2 | 2 | 2 | 1 | 4 | 1 | 2 | 1 | 3 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 1 | 42 | -12,025 | 144,60063 | |
| R-25 | 2 | 3 | 1 | 1 | 2 | 2 | 3 | 2 | 1 | 2 | 3 | 2 | 3 | 3 | 2 | 1 | 2 | 2 | 3 | 3 | 43 | -11,025 | 121,55063 |
| R-26 | 4 | 3 | 2 | 3 | 2 | 1 | 3 | 2 | 3 | 2 | 3 | 4 | 4 | 3 | 4 | 2 | 1 | 2 | 4 | 3 | 55 | 0,975 | 0,950625 |
| R-27 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 4 | 3 | 4 | 3 | 4 | 4 | 2 | 4 | 4 | 4 | 60 | 5,975 | 35,700625 |
| R-28 | 3 | 4 | 3 | 3 | 2 | 4 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 4 | 4 | 2 | 3 | 3 | 4 | 4 | 65 | 10,975 | 120,45063 |
| R-29 | 4 | 4 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 4 | 3 | 4 | 4 | 4 | 2 | 2 | 3 | 4 | 4 | 67 | 12,975 | 168,35063 |
| R-30 | 3 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 1 | 1 | 2 | 3 | 2 | 44 | -10,025 | 100,50063 |
| R-31 | 2 | 4 | 3 | 4 | 2 | 2 | 4 | 3 | 2 | 2 | 3 | 4 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 65 | 10,975 | 120,45063 |
| R-32 | 3 | 2 | 2 | 3 | 2 | 1 | 3 | 2 | 2 | 2 | 4 | 2 | 1 | 2 | 3 | 3 | 2 | 2 | 2 | 3 | 46 | -8,025 | 64,400625 |
| R-33 | 2 | 4 | 2 | 3 | 2 | 4 | 4 | 2 | 3 | 2 | 4 | 2 | 1 | 3 | 2 | 3 | 1 | 3 | 3 | 3 | 53 | -1,025 | 1,050625 |
| R-34 | 2 | 4 | 4 | 3 | 2 | 3 | 4 | 2 | 4 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 70 | 15,975 | 255,20063 |
| R-35 | 3 | 3 | 1 | 3 | 2 | 1 | 3 | 2 | 1 | 2 | 3 | 4 | 2 | 1 | 3 | 2 | 1 | 4 | 3 | 4 | 48 | -6,025 | 36,300625 |
| R-36 | 4 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 1 | 4 | 4 | 56 | 1,975 | 3,900625 |
| R-37 | 3 | 3 | 2 | 3 | 2 | 1 | 3 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 3 | 2 | 4 | 4 | 4 | 52 | -2,025 | 4,100625 |
| R-38 | 2 | 3 | 2 | 3 | 1 | 1 | 3 | 2 | 2 | 1 | 4 | 3 | 3 | 2 | 3 | 2 | 1 | 4 | 4 | 3 | 49 | -5,025 | 25,250625 |
| R-39 | 3 | 3 | 2 | 3 | 1 | 1 | 3 | 2 | 2 | 2 | 4 | 3 | 3 | 2 | 3 | 3 | 1 | 4 | 4 | 3 | 52 | -2,025 | 4,100625 |
| R-40 | 4 | 4 | 2 | 3 | 2 | 2 | 3 | 2 | 4 | 4 | 4 | 2 | 3 | 2 | 4 | 4 | 2 | 2 | 4 | 4 | 61 | 6,975 | 48,650625 |
| Jmlh | 110 | 118 | 87 | 111 | 96 | 89 | 131 | 85 | 98 | 79 | 134 | 122 | 107 | 106 | 112 | 111 | 79 | 122 | 128 | 136 | 2161 | 5,684 | 3522,975 |
| Rata-rata | | | | | | | | | | | | | | | | | 54,03 | | | | | | |

| |
|----------------|
| 90,33269231 |
| 0,790 |
| 1,010 |
| 0,848 |
| 1,074 |
| 0,924 |
| 0,86 |
| 0,778 |
| 0,869 |
| 0,798 |
| 0,678 |
| 0,424 |
| 1,048 |
| 0,509 |
| 0,449 |
| 1,124 |
| 0,59 |
| 0,674 |
| 0,544 |
| 0,548 |
| 0,688 |
| Varians |



Lampiran 13**NILAI HASIL ANGGKET DAN HASIL BELAJAR RESPONDEN**

| No | L/P | Nama | Kelas | Hasil Angket | Hasil Belajar |
|-----------|------------|---------------|--------------|---------------------|----------------------|
| 1. | L | Riwal almsah | I | 57 | 83 |
| 2. | P | Eni Rahmatia | I | 64 | 83 |
| 3. | P | Cinta mentari | II | 61 | 83 |
| 4. | P | Windi Sari | III | 57 | 85 |
| 5. | P | Fatima | I | 63 | 90 |
| 6. | P | Tiara | II | 65 | 87 |
| 7. | P | Mida | III | 62 | 87 |
| 8. | L | Ladini | I | 58 | 90 |
| 9. | L | Rusdin | II | 65 | 86 |
| 10. | L | Perdin | III | 56 | 90 |
| 11. | P | Deni | I | 65 | 88 |
| 12. | P | Nabila | II | 63 | 88 |
| 13. | L | Iren | III | 72 | 86 |
| 14. | P | Bintang | I | 66 | 85 |
| 15. | L | Bambang | II | 62 | 82 |
| 16. | L | Sugiarto | III | 57 | 87 |
| 17. | P | Ulang Sari | II | 64 | 95 |
| 18. | L | Tomi | I | 56 | 88 |
| 19. | L | Ilham | III | 55 | 85 |
| 20. | L | Reno | I | 64 | 85 |
| 21. | P | Serti | II | 60 | 90 |
| 22. | P | Rianti | III | 59 | 89 |
| 23. | P | Yanti | I | 58 | 92 |
| 24. | P | Selsi | II | 57 | 87 |
| 25. | P | Nabila | III | 62 | 87 |
| 26. | L | Yanto | II | 63 | 81 |

| | | | | | |
|------------------|---|---------------|-----|------|--------|
| 27. | L | Yusuf | I | 57 | 93 |
| 28. | P | Erna | I | 58 | 90 |
| 29. | L | Zul rahmat | II | 65 | 78 |
| 30. | P | Pira | I | 61 | 84 |
| 31. | P | Kardila | III | 59 | 87 |
| 32. | P | Erna | II | 70 | 86 |
| 33. | L | Reno | I | 68 | 80 |
| 34. | P | Reti | III | 68 | 87 |
| 35. | L | Jojo saptra | I | 62 | 96 |
| 36. | L | Maljidan | III | 68 | 88 |
| 37. | P | Selma | II | 68 | 87 |
| 38. | L | Doni S. | I | 61 | 94 |
| 39. | P | Siti nuralini | III | 70 | 84 |
| 40. | P | Wilda | II | 58 | 88 |
| Jumlah | | | | 2484 | 3481 |
| Rata-rata | | | | 62,1 | 87,025 |

Lampiran 14

**UJI NORMALITAS
ANGKET POLA DIDIK ORANG TUA**

Descriptive Statistics

| | N | Mean | Std. Deviation | Minimum | Maximum |
|----------------------|----|---------|----------------|---------|---------|
| Pola Didik Orang Tua | 40 | 62.1000 | 4.45375 | 55.00 | 72.00 |

One-Sample Kolmogorov-Smirnov Test

| | | Pola Didik Orang Tua |
|---------------------------------|----------------|-------------------------|
| N | | 40 |
| Normal Parameters ^a | Mean | 62.1000 |
| | Std. Deviation | 4.45375 |
| Most Extreme Differences | Absolute | .121 |
| | Positive | .121 |
| | Negative | -.082 |
| Kolmogorov-Smirnov Z | | .768 |
| Asymp. Sig. (2-tailed) | | .598 |
| a. Test distribution is Normal. | | |

Berdasarkan hasil dari uji normalitas yang diujikan melalui SPSS 16.0 pada tabel diatas, dapat diketahui bahwa nilai signifikansi $0.598 > 0.05$, maka nilai angket Pola Didik Orang Tua Siswa SMP SATAP Negeri Mantigola Tahun Pelajaran 2019/2020 berdistribusi **normal**.

Lampiran 15

UJI NORMALITAS
HASIL BELAJAR IPA SISWA SMP SATAP NEGERI NEGERI SATAP
MANTIGOLA TAHUN PELAJARAN 2019/2020

Descriptive Statistics

| | N | Mean | Std. Deviation | Minimum | Maximum |
|---------------|----|---------|----------------|---------|---------|
| Hasil Belajar | 40 | 87.0250 | 3.87290 | 78.00 | 96.00 |

One-Sample Kolmogorov-Smirnov Test

| | | Hasil Belajar |
|---------------------------------|----------------|---------------|
| N | | 40 |
| Normal Parameters ^a | Mean | 87.0250 |
| | Std. Deviation | 3.87290 |
| Most Extreme Differences | Absolute | .126 |
| | Positive | .126 |
| | Negative | -.097 |
| Kolmogorov-Smirnov Z | | .794 |
| Asymp. Sig. (2-tailed) | | .553 |
| a. Test distribution is Normal. | | |
| | | |

Berdasarkan hasil dari uji normalitas yang diujikan melalui SPSS 16.0 pada tabel diatas dapat diketahui bahwa nilai signifikansi $0.553 > 0.05$, maka nilai hasil belajar IPA Siswa SMP SATAP Negeri Mantigola Tahun Pelajaran 2019/2020 berdistribusi **normal**.

Lampiran 16

UJI HOMOGENITAS PENGARUH POLADIDIK ORANG TUA TERHADAP HASIL BELAJAR IPA SISWA SMP SATAP NEGERI MANTIGOLA

Hipotesis:

$$H_0 : \sigma_1^2 = \sigma_2^2$$

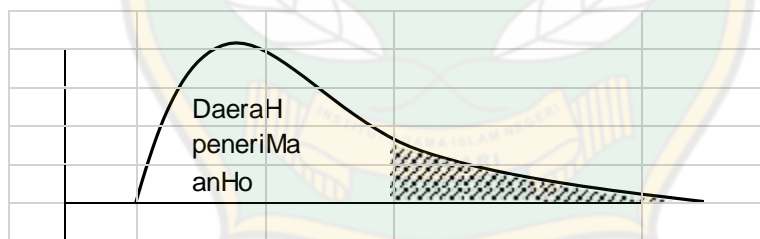
$$H_0 : \sigma_1^2 \neq \sigma_2^2$$

Pengujian Hipotesis

$$F_{hitung} = \frac{\text{Varians terbesar}}{\text{Varians terkecil}}$$

Kriteria Pengujian:

H_0 diterima jika $F_{hitung} \leq F(1/2.\alpha)(v_1, v_2)$ dengan taraf signifikan 5% $v_1 = n_1 - 1$ (dkpembilang) dan $v_2 = n_2 - 1$ (dkpenyebut).



Tabel Bantu Perhitungan

| No | Angket | HasilBelajar | No | Angket | HasilBelajar |
|------|--------|--------------|------|--------|--------------|
| R-1 | 57 | 83 | R-21 | 60 | 90 |
| R-2 | 64 | 83 | R-22 | 59 | 89 |
| R-3 | 61 | 83 | R-23 | 58 | 92 |
| R-4 | 57 | 85 | R-24 | 57 | 87 |
| R-5 | 63 | 90 | R-25 | 62 | 87 |
| R-6 | 65 | 87 | R-26 | 63 | 81 |
| R-7 | 62 | 87 | R-27 | 57 | 93 |
| R-8 | 58 | 90 | R-28 | 58 | 90 |
| R-9 | 65 | 86 | R-29 | 65 | 78 |
| R-10 | 56 | 90 | R-30 | 61 | 84 |
| R-11 | 65 | 88 | R-31 | 59 | 87 |
| R-12 | 63 | 88 | R-32 | 70 | 86 |
| R-13 | 72 | 86 | R-33 | 68 | 80 |
| R-14 | 66 | 85 | R-34 | 68 | 87 |
| R-15 | 62 | 82 | R-35 | 62 | 96 |

| | | | | | |
|------------------------|----------|----|-----------------------------|----------|----|
| R-16 | 57 | 87 | R-36 | 68 | 88 |
| R-17 | 64 | 95 | R-37 | 68 | 87 |
| R-18 | 56 | 88 | R-38 | 61 | 94 |
| R-19 | 55 | 85 | R-39 | 70 | 84 |
| R-20 | 64 | 85 | R-40 | 58 | 88 |
| Jumlah Angket | 2484 | | Jumlah Hasil Belajar | 3481 | |
| N | 40 | | N | 40 | |
| Mean | 62,1 | | Mean | 87,025 | |
| Varians | 19,8359 | | Varians | 14,9993 | |
| Standar Deviasi | 4,453751 | | Standar Deviasi | 3,872900 | |

Berdasarkan data tabel diatas diperoleh:

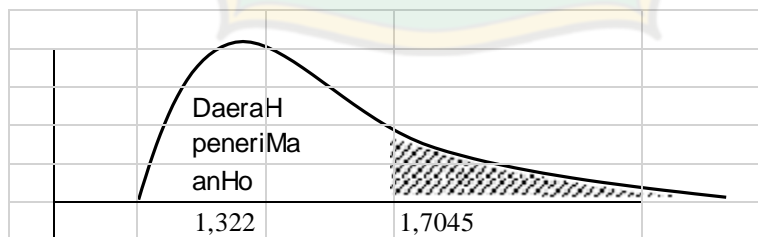
$$F = \frac{\text{Varians terbesar}}{\text{Varians terkecil}}$$

$$F = \frac{19,8359}{14,9993}$$

$$F = 1,32245$$

Pada α 5% dengan dkpembilang= $n_1 - 1 = 40 - 1 = 39$ dan dkpenyebut

$$= n_2 - 1 = 40 - 1 = 39. F(0,025), (39,39) = 1,704465$$



Karena $F_{hitung} < F(0,025), (39,39)$ maka data kedua variabel tersebut memiliki varians yang sama (**homogen**).

Lampiran 17

UJI LINIERITAS POLA DIDIK ORANG TUA TERHADAP HASIL BELAJAR IPA SISWA SMP SATAP Negeri MANTIGOLA TAHUN PELAJARAN 2019/2020

Hipotesis:

H₀: data berdistribusi linier

H₁: data tidak berdistribusi linier

Pengujian Hipotesis:

$$F_{reg} = \frac{RJK_{TC}}{RJE}$$

Dimana;

$$JK_{reg[a]} = \frac{(\sum Y)^2}{n}$$

$$b = \frac{N(\sum XY) - \sum X \sum Y}{N\sum X^2 - (\sum X)^2}$$

$$JK_{reg[b/a]} = b \cdot \left(\sum XY - \frac{\sum X \sum Y}{n} \right)$$

$$JK_{res} = \sum Y^2 - JK_{reg[b/a]} - JK_{reg[a]}$$

$$RJK_{reg[a]} = JK_{reg[a]}$$

$$RJK_{reg[b/a]} = RJK_{reg[b/a]}$$

$$RJK_{res} = \frac{RJK_{res}}{n-2}$$

$$JK_E = \sum_k \left(\sum Y^2 - \frac{(\sum Y)^2}{n} \right)$$

$$JK_{TC} = JK_{res} - JK_E$$

$$RJK_{TC} = \frac{JK_{TC}}{k-2}$$

$$RJK_E = \frac{JK_E}{n-2}$$

Kriteria Pegujian:

H₀ di terima apa bila Fhitung < F(1-α) (dbTC, DBE) dengan taraf signifikan 5%.

Dimana db TC = k-2 dan db E = n-k.

Tabel Bantu Perhitungan

| No | X | Y | X² | Y² | XY |
|-------------|-------------|-------------|----------------------|----------------------|---------------|
| 1. | 57 | 83 | 3249 | 6889 | 4731 |
| 2. | 64 | 83 | 4096 | 6889 | 5312 |
| 3. | 61 | 83 | 3721 | 6889 | 5063 |
| 4. | 57 | 85 | 3249 | 7225 | 4845 |
| 5. | 63 | 90 | 3969 | 8100 | 5670 |
| 6. | 65 | 87 | 4225 | 7569 | 5655 |
| 7. | 62 | 87 | 3844 | 7569 | 5394 |
| 8. | 58 | 90 | 3364 | 8100 | 5220 |
| 9. | 65 | 86 | 4225 | 7396 | 5590 |
| 10. | 56 | 90 | 3136 | 8100 | 5040 |
| 11. | 65 | 88 | 4225 | 7744 | 5720 |
| 12. | 63 | 88 | 3969 | 7744 | 5544 |
| 13. | 72 | 86 | 5184 | 7396 | 6192 |
| 14. | 66 | 85 | 4356 | 7225 | 5610 |
| 15. | 62 | 82 | 3844 | 6724 | 5084 |
| 16. | 57 | 87 | 3249 | 7569 | 4959 |
| 17. | 64 | 95 | 4096 | 9025 | 6080 |
| 18. | 56 | 88 | 3136 | 7744 | 4928 |
| 19. | 55 | 85 | 3025 | 7225 | 4675 |
| 20. | 64 | 85 | 4096 | 7225 | 5440 |
| 21. | 60 | 90 | 3600 | 8100 | 5400 |
| 22. | 59 | 89 | 3481 | 7921 | 5251 |
| 23. | 58 | 92 | 3364 | 8464 | 5336 |
| 24. | 57 | 87 | 3249 | 7569 | 4959 |
| 25. | 62 | 87 | 3844 | 7569 | 5394 |
| 25. | 63 | 81 | 3969 | 6561 | 5103 |
| 27. | 57 | 93 | 3249 | 8649 | 5301 |
| 28. | 58 | 90 | 3364 | 8100 | 5220 |
| 29. | 65 | 78 | 4225 | 6084 | 5070 |
| 30. | 61 | 84 | 3721 | 7056 | 5124 |
| 31. | 59 | 87 | 3481 | 7569 | 5133 |
| 32. | 70 | 86 | 4900 | 7396 | 6020 |
| 33. | 68 | 80 | 4624 | 6400 | 5440 |
| 34. | 68 | 87 | 4624 | 7569 | 5916 |
| 35. | 62 | 96 | 3844 | 9216 | 5952 |
| 36. | 68 | 88 | 4624 | 7744 | 5984 |
| 37. | 68 | 87 | 4624 | 7569 | 5916 |
| 38. | 61 | 94 | 3721 | 8836 | 5734 |
| 39. | 70 | 84 | 4900 | 7056 | 5880 |
| 40. | 58 | 88 | 3364 | 7744 | 5104 |
| Jmlh | 2484 | 3481 | 155030 | 305019 | 215989 |

Dari tabel diketahui bahwa:

$$\begin{aligned} \sum X &= 2484 & \sum X^2 &= 155030 & \sum XY &= 215989 \\ \sum Y &= 3481 & \sum Y^2 &= 305019 & n &= 40 \end{aligned}$$

$$\begin{aligned} JK_{reg(a)} &= \frac{(\sum Y)^2}{n} \\ &= \frac{(3481)^2}{40} \\ &= \frac{12117361}{40} \\ &= 302934,025 \end{aligned}$$

$$\begin{aligned} b &= \frac{N(\sum XY) - \sum X \sum Y}{N\sum X^2 - (\sum X)^2} \\ b &= \frac{40(215989) - 2484 \cdot 3481}{40 \cdot 155030 - (2484)^2} \end{aligned}$$

$$b = \frac{8639560 - 4646804}{6201200 - 6170256}$$

$$b = \frac{-7244}{30944}$$

$$b = -0,23410031$$

$$\begin{aligned} JK_{reg[b/a]} &= b \cdot \left(\sum XY - \frac{\sum X \sum Y}{n} \right) \\ &= -0,2341003 \cdot \left(215989 - \frac{2484 \cdot 3481}{40} \right) \\ &= -0,2341003 \cdot \left(215989 - \frac{8646804}{40} \right) \\ &= -0,2341003 \cdot (215989 - 216170,1) \\ &= -0,2341003 \cdot (-181,1) \\ &= 42,39557 \end{aligned}$$

$$\begin{aligned} JK_{res} &= \sum Y^2 - JK_{reg[b/a]} - JK_{reg[a]} \\ &= 305019 - 42,395564 - 302934,03 \\ &= 542,57943 \end{aligned}$$

$$\begin{aligned} RJK_{reg[a]} &= JK_{reg[a]} \\ &= 302934,025 \end{aligned}$$

$$\begin{aligned} RJK_{reg[b/a]} &= RJK_{reg[b/a]} \\ &= 42,395566 \end{aligned}$$

$$\begin{aligned}
 RJK_{res} &= \frac{RJK_{res}}{n-2} \\
 &= \frac{542,5794}{40-2} \\
 &= \frac{1869,0833}{38} \\
 &= 14,27840615
 \end{aligned}$$

Tabel Bantu Perhitungan Jumlah Kuadrat Error

| X | K | N | Y | Y ² |
|----|----|---|----|----------------|
| 55 | 1 | 1 | 85 | 7225 |
| 56 | 2 | 2 | 90 | 8100 |
| 56 | | | 88 | 7744 |
| 57 | 3 | 5 | 83 | 6889 |
| 57 | | | 85 | 7225 |
| 57 | | | 87 | 7569 |
| 57 | | | 87 | 7569 |
| 57 | | | 93 | 8649 |
| 58 | 4 | 4 | 90 | 8100 |
| 58 | | | 92 | 8464 |
| 58 | | | 90 | 8100 |
| 58 | | | 88 | 7744 |
| 59 | 5 | 2 | 89 | 7921 |
| 59 | | | 87 | 7569 |
| 60 | 6 | 1 | 90 | 8100 |
| 61 | 7 | 3 | 83 | 6889 |
| 61 | | | 84 | 7056 |
| 61 | | | 94 | 8836 |
| 62 | 8 | 4 | 87 | 7569 |
| 62 | | | 82 | 6724 |
| 62 | | | 87 | 7569 |
| 62 | | | 96 | 9216 |
| 63 | 9 | 3 | 90 | 8100 |
| 63 | | | 88 | 7744 |
| 63 | | | 81 | 6561 |
| 64 | 10 | 3 | 83 | 6889 |
| 64 | | | 95 | 9025 |
| 64 | | | 85 | 7225 |
| 65 | 11 | 4 | 87 | 7569 |
| 65 | | | 86 | 7396 |
| 65 | | | 88 | 7744 |
| 65 | | | 78 | 6084 |
| 66 | 12 | 1 | 85 | 7225 |
| 68 | | | 80 | 6400 |

| | | | | |
|----|----|---|----|------|
| 68 | 13 | 4 | 87 | 7569 |
| 68 | | | 88 | 7744 |
| 68 | | | 87 | 7569 |
| 70 | 14 | 2 | 86 | 7396 |
| 70 | | | 84 | 7056 |
| 72 | 15 | 1 | 86 | 7396 |
| | | | | |

$$\begin{aligned}
JK_E &= \sum_k \left\{ \sum Y^2 - \frac{(\sum Y)^2}{n} \right\} \\
&= \left\{ 85^2 - \frac{(85)^2}{1} \right\} + \left\{ 90^2 + 88^2 - \frac{(90+88)^2}{2} \right\} + \\
&\quad \left\{ 83^2 + 85^2 + 87^2 + 93^2 + 87^2 - \frac{(83+85+87+93+87)^2}{5} \right\} + \\
&\quad \left\{ 90^2 + 90^2 + 92^2 + 88^2 - \frac{(83+85+87+93+87)^2}{4} \right\} + \\
&\quad \left\{ 89^2 + 87^2 + 92^2 + 88^2 - \frac{(89+87)^2}{2} \right\} + \left\{ 90^2 - \frac{(90)^2}{1} \right\} + \\
&\quad \left\{ 83^2 + 84^2 + 94^2 - \frac{(83+84+94)^2}{3} \right\} + \\
&\quad \left\{ 87^2 + 82^2 + 87^2 + 96^2 - \frac{(87+82+87+96)^2}{4} \right\} + \\
&\quad \left\{ 90^2 + 88^2 + 81^2 - \frac{(90+88+81)^2}{3} \right\} + \\
&\quad \left\{ 83^2 + 95^2 + 85^2 - \frac{(83+95+85)^2}{3} \right\} + \\
&\quad \left\{ 87^2 + 86^2 + 88^2 + 78^2 - \frac{(87+86+88+78)^2}{4} \right\} + \\
&\quad \left\{ 85^2 - \frac{(85)^2}{1} \right\} + \left\{ 80^2 + 87^2 + 88^2 + 87^2 - \frac{(80+87+88+87)^2}{4} \right\} + \\
&\quad \left\{ 86^2 + 86^2 - \frac{(86+84)^2}{2} \right\} + \left\{ 86^2 - \frac{(86)^2}{1} \right\} \\
&= 0 + 1394 + 56 + 8 + 2 + 0 + 74 + 102 + 44,666667 + 82 + 62,75 + \\
&\quad 0 + 41 + 2 + 0 \\
&= 1458 + 178 + 190,08333 + 43 \\
&= 1869,0833
\end{aligned}$$

$$\begin{aligned}
JK_{TC} &= JK_{res} - JK_E \\
&= 542,5794338 - 1869,0833 \\
&= -1326,5039
\end{aligned}$$

$$\begin{aligned}
 RJK_{TC} &= \frac{JK_{TC}}{k-2} \\
 &= \frac{-1326,5039}{15-2} \\
 &= \frac{-1326,5039}{13} \\
 &= 143,775641
 \end{aligned}$$

$$\begin{aligned}
 RJK_E &= \frac{JK_E}{n-2} \\
 &= \frac{1869,083333}{40-15} \\
 &= \frac{1869,083333}{25} \\
 &= 74,76333333
 \end{aligned}$$

$$\begin{aligned}
 F_{hitung} &= \frac{JK_{TC}}{JK_E} \\
 &= \frac{143,775641}{74,76333333} \\
 &= 1,923076923
 \end{aligned}$$

$$F_{hitung} = 2,136229$$

Karena $F_{hitung} = 1,923076 \leq F_{tabel} = 2,136229$ maka dapat disimpulkan kedua data kelas tersebut bersifat linear.

Lampiran 18

UJI HIPOTESIS

1. KORELASI

Hipotesis:

H₀: Ada hubungan antara pola didik orang tua terhadap hasil belajar IPA siswa SMP SATAP Negeri Mantigola TP 2019/2020

H₁ :Tidak ada hubungan antara pola didik orangtua terhadap Hasil Belajar IPA siswa SMP SATAP Negeri Mantigola TP 2019/2020

Pengujian Hipotesis:

$$r_{xy} = \frac{\sum xy}{\sqrt{(\sum x^2)(\sum y^2)}}$$

Kriteria Pengujian:

H₀ diterima apabila $r_{xy} < r_{tabel}$ dengan taraf signifikan 5%.

Tabel Bantu Perhitungan

| No | X | Y | x ² | y ² | XY |
|-----|----|----|----------------|----------------|------|
| 1. | 57 | 83 | 3249 | 6889 | 4731 |
| 2. | 64 | 83 | 4096 | 6889 | 5312 |
| 3. | 61 | 83 | 3721 | 6889 | 5063 |
| 4. | 57 | 85 | 3249 | 7225 | 4845 |
| 5. | 63 | 90 | 3969 | 8100 | 5670 |
| 6. | 65 | 87 | 4225 | 7569 | 5655 |
| 7. | 62 | 87 | 3844 | 7569 | 5394 |
| 8. | 58 | 90 | 3364 | 8100 | 5220 |
| 9. | 65 | 86 | 4225 | 7396 | 5590 |
| 10. | 56 | 90 | 3136 | 8100 | 5040 |
| 11. | 65 | 88 | 4225 | 7744 | 5720 |
| 12. | 63 | 88 | 3969 | 7744 | 5544 |
| 13. | 72 | 86 | 5184 | 7396 | 6192 |
| 14. | 66 | 85 | 4356 | 7225 | 5610 |
| 15. | 62 | 82 | 3844 | 6724 | 5084 |
| 16. | 57 | 87 | 3249 | 7569 | 4959 |
| 17. | 64 | 95 | 4096 | 9025 | 6080 |
| 18. | 56 | 88 | 3136 | 7744 | 4928 |
| 19. | 55 | 85 | 3025 | 7225 | 4675 |
| 20. | 64 | 85 | 4096 | 7225 | 5440 |
| 21. | 60 | 90 | 3600 | 8100 | 5400 |
| 22. | 59 | 89 | 3481 | 7921 | 5251 |
| 23. | 58 | 92 | 3364 | 8464 | 5336 |
| 24. | 57 | 87 | 3249 | 7569 | 4959 |

| | | | | | |
|------|-------------|-------------|---------------|---------------|---------------|
| 25. | 62 | 87 | 3844 | 7569 | 5394 |
| 25. | 63 | 81 | 3969 | 6561 | 5103 |
| 27. | 57 | 93 | 3249 | 8649 | 5301 |
| 28. | 58 | 90 | 3364 | 8100 | 5220 |
| 29. | 65 | 78 | 4225 | 6084 | 5070 |
| 30. | 61 | 84 | 3721 | 7056 | 5124 |
| 31. | 59 | 87 | 3481 | 7569 | 5133 |
| 32. | 70 | 86 | 4900 | 7396 | 6020 |
| 33. | 68 | 80 | 4624 | 6400 | 5440 |
| 34. | 68 | 87 | 4624 | 7569 | 5916 |
| 35. | 62 | 96 | 3844 | 9216 | 5952 |
| 36. | 68 | 88 | 4624 | 7744 | 5984 |
| 37. | 68 | 87 | 4624 | 7569 | 5916 |
| 38. | 61 | 94 | 3721 | 8836 | 5734 |
| 39. | 70 | 84 | 4900 | 7056 | 5880 |
| 40. | 58 | 88 | 3364 | 7744 | 5104 |
| Jmlh | 2484 | 3481 | 155030 | 305019 | 215989 |

Dari tabel diketahui bahwa:

$$\sum X = 2484 \quad \sum X^2 = 155030 \quad \sum XY = 215989$$

$$\sum Y = 3481 \quad \sum Y^2 = 305019 \quad n = 40$$

a. Mencari nilai $\sum x^2$

Rumus:

$$\sum x^2 = \sum XY - \frac{(\sum X)(\sum Y)}{N}$$

$$\sum x^2 = 215989 - \frac{(2484)(3481)}{40}$$

$$\sum x^2 = 215989 - \frac{8646804}{40}$$

$$\sum x^2 = 215989 - 216170,1$$

$$\sum x^2 = -181,1$$

b. Mencari nilai $\sum X^2$

$$\sum x^2 = \sum X^2 - \frac{(\sum X)^2}{N}$$

$$\sum x^2 = 155030 - \frac{(2484)^2}{40}$$

$$\sum x^2 = 155030 - \frac{6170256}{40}$$

$$\sum x^2 = 155030 - 154256,4$$

$$\sum x^2 = 773,6$$

c. Mencari nilai $\sum y^2$

$$\sum y^2 = \sum Y^2 - \frac{(\sum Y)^2}{N}$$

$$\sum y^2 = 303519 - \frac{(3481)^2}{40}$$

$$\sum y^2 = 303519 - \frac{12117361}{40}$$

$$\sum y^2 = 303519 - 302934,03$$

$$\sum y^2 = 584,97$$

$$r_{xy} = \frac{\sum xy}{\sqrt{\sum x^2}(\sum y^2)}$$

$$r_{xy} = \frac{-181,1}{\sqrt{(773,6)(584,97)}}$$

$$r_{xy} = \frac{-181,1}{\sqrt{452536,66}}$$

$$r_{xy} = \frac{-181,1}{\sqrt{672,7085}}$$

$$r_{xy} = -0,26922102$$

$$r_{tabel} 1\% = 0,403$$

$$r_{tabel} 5\% = 0,312$$

Karena $r_{xy} (-0,26922102) < r_{tabel} (1\% = 0,403) (5\% = 0,312)$, maka H_0 **diterima** baik pada taraf signifikan 1% maupun 5% artinya ada pengaruh antara pola didik orang tua terhadap Hasil Belajar IPA siswa SMP SATAP Negeri Mantigola Tahun Pelajaran 2019/2020.

2. GARIS REGRESI

Rumus:

$$Y = a + bX$$

Dimana;

Nilai a (konstanta), dan b (koefisien regresi untuk variable X) dapat diperoleh melalui rumus:

$$a = \frac{\sum Y - b \sum X}{N}$$

$$b = \frac{N(\sum XY) - \sum X \sum Y}{N \sum X^2 - (\sum X)^2}$$

Tabel Bantuk Perhitungan

| No | X | Y | X ² | Y ² | XY |
|-----|----|----|----------------|----------------|------|
| 1. | 57 | 83 | 3249 | 6889 | 4731 |
| 2. | 64 | 83 | 4096 | 6889 | 5312 |
| 3. | 61 | 83 | 3721 | 6889 | 5063 |
| 4. | 57 | 85 | 3249 | 7225 | 4845 |
| 5. | 63 | 90 | 3969 | 8100 | 5670 |
| 6. | 65 | 87 | 4225 | 7569 | 5655 |
| 7. | 62 | 87 | 3844 | 7569 | 5394 |
| 8. | 58 | 90 | 3364 | 8100 | 5220 |
| 9. | 65 | 86 | 4225 | 7396 | 5590 |
| 10. | 56 | 90 | 3136 | 8100 | 5040 |
| 11. | 65 | 88 | 4225 | 7744 | 5720 |
| 12. | 63 | 88 | 3969 | 7744 | 5544 |
| 13. | 72 | 86 | 5184 | 7396 | 6192 |
| 14. | 66 | 85 | 4356 | 7225 | 5610 |
| 15. | 62 | 82 | 3844 | 6724 | 5084 |
| 16. | 57 | 87 | 3249 | 7569 | 4959 |
| 17. | 64 | 95 | 4096 | 9025 | 6080 |
| 18. | 56 | 88 | 3136 | 7744 | 4928 |
| 19. | 55 | 85 | 3025 | 7225 | 4675 |
| 20. | 64 | 85 | 4096 | 7225 | 5440 |
| 21. | 60 | 90 | 3600 | 8100 | 5400 |
| 22. | 59 | 89 | 3481 | 7921 | 5251 |
| 23. | 58 | 92 | 3364 | 8464 | 5336 |
| 24. | 57 | 87 | 3249 | 7569 | 4959 |
| 25. | 62 | 87 | 3844 | 7569 | 5394 |
| 25. | 63 | 81 | 3969 | 6561 | 5103 |
| 27. | 57 | 93 | 3249 | 8649 | 5301 |
| 28. | 58 | 90 | 3364 | 8100 | 5220 |
| 29. | 65 | 78 | 4225 | 6084 | 5070 |
| 30. | 61 | 84 | 3721 | 7056 | 5124 |
| 31. | 59 | 87 | 3481 | 7569 | 5133 |
| 32. | 70 | 86 | 4900 | 7396 | 6020 |
| 33. | 68 | 80 | 4624 | 6400 | 5440 |
| 34. | 68 | 87 | 4624 | 7569 | 5916 |
| 35. | 62 | 96 | 3844 | 9216 | 5952 |
| 36. | 68 | 88 | 4624 | 7744 | 5984 |
| 37. | 68 | 87 | 4624 | 7569 | 5916 |
| 38. | 61 | 94 | 3721 | 8836 | 5734 |
| 39. | 70 | 84 | 4900 | 7056 | 5880 |
| 40. | 58 | 88 | 3364 | 7744 | 5104 |

| | | | | | |
|------|------|------|--------|--------|--------|
| Jmlh | 2484 | 3481 | 155030 | 305019 | 215989 |
|------|------|------|--------|--------|--------|

Dari tabel diketahui bahwa:

$$\begin{aligned} \sum X &= 2484 & \sum X^2 &= 155030 & \sum XY &= 215989 \\ \sum Y &= 3481 & \sum Y^2 &= 305019 & n &= 40 \end{aligned}$$

$$a = \frac{\sum Y - b \sum X}{N}$$

$$a = \frac{3481 - (-0.234100031) \cdot 2484}{40}$$

$$a = \frac{3481 - (-581,50)}{40}$$

$$a = \frac{4065,2}{40}$$

$$a = 101,5625$$

$$b = \frac{N(\sum Y) - \sum X \sum Y}{N \sum X^2 - (\sum X)^2}$$

$$b = \frac{40(215989) - 2484 \cdot 3481}{40 \cdot 155030 - (2484)^2}$$

$$b = \frac{8639560 - 8646804}{6201200 - 6170256}$$

$$b = \frac{-7244}{30944}$$

$$b = -0,23410031$$

3. REGRESI

Pengujian Hipotesis:

$$JK_{reg[a]} = \frac{(\sum Y)^2}{n}$$

$$b = \frac{N(\sum XY) - \sum X \sum Y}{N \sum X^2 - (\sum X)^2}$$

$$JK_{reg[b]} = b \cdot \left(\sum XY - \frac{\sum X \cdot \sum Y}{n} \right)$$

$$JK_{res} = \sum Y^2 - JK_{reg[b]} - JK_{reg[a]}$$

$$RJK_{reg[a]} = JK_{reg[a]}$$

$$RJK_{reg[b]} = RJK_{reg[b]}$$

$$RJK_{res} = \frac{JK_{res}}{n-2}$$

$$JK_E = \sum_k \left\{ \sum Y^2 - \frac{(\sum Y)^2}{n} \right\}$$

$$JK_{TC} = JK_{res} - JK_E$$

$$RJK_{TC} = \frac{JK_{TC}}{k-2}$$

$$RJK_E = \frac{JK_E}{n-k}$$

$F_{hitung} \geq F_{tabel}$ maka artinya signifikan,

$F_{hitung} \leq F_{tabel}$ maka artinya signifikan

Tabel Bantu Perhitungan:

| | X | Y | X² | Y² | XY |
|-----|----------|----------|----------------------|----------------------|-----------|
| 1. | 57 | 83 | 3249 | 6889 | 4731 |
| 2. | 64 | 83 | 4096 | 6889 | 5312 |
| 3. | 61 | 83 | 3721 | 6889 | 5063 |
| 4. | 57 | 85 | 3249 | 7225 | 4845 |
| 5. | 63 | 90 | 3969 | 8100 | 5670 |
| 6. | 65 | 87 | 4225 | 7569 | 5655 |
| 7. | 62 | 87 | 3844 | 7569 | 5394 |
| 8. | 58 | 90 | 3364 | 8100 | 5220 |
| 9. | 65 | 86 | 4225 | 7396 | 5590 |
| 10. | 56 | 90 | 3136 | 8100 | 5040 |
| 11. | 65 | 88 | 4225 | 7744 | 5720 |
| 12. | 63 | 88 | 3969 | 7744 | 5544 |
| 13. | 72 | 86 | 5184 | 7396 | 6192 |
| 14. | 66 | 85 | 4356 | 7225 | 5610 |
| 15. | 62 | 82 | 3844 | 6724 | 5084 |
| 16. | 57 | 87 | 3249 | 7569 | 4959 |
| 17. | 64 | 95 | 4096 | 9025 | 6080 |
| 18. | 56 | 88 | 3136 | 7744 | 4928 |
| 19. | 55 | 85 | 3025 | 7225 | 4675 |
| 20. | 64 | 85 | 4096 | 7225 | 5440 |
| 21. | 60 | 90 | 3600 | 8100 | 5400 |
| 22. | 59 | 89 | 3481 | 7921 | 5251 |
| 23. | 58 | 92 | 3364 | 8464 | 5336 |
| 24. | 57 | 87 | 3249 | 7569 | 4959 |
| 25. | 62 | 87 | 3844 | 7569 | 5394 |
| 25. | 63 | 81 | 3969 | 6561 | 5103 |
| 27. | 57 | 93 | 3249 | 8649 | 5301 |
| 28. | 58 | 90 | 3364 | 8100 | 5220 |
| 29. | 65 | 78 | 4225 | 6084 | 5070 |
| 30. | 61 | 84 | 3721 | 7056 | 5124 |
| 31. | 59 | 87 | 3481 | 7569 | 5133 |
| 32. | 70 | 86 | 4900 | 7396 | 6020 |

| | | | | | |
|------|-------------|-------------|---------------|---------------|---------------|
| 33. | 68 | 80 | 4624 | 6400 | 5440 |
| 34. | 68 | 87 | 4624 | 7569 | 5916 |
| 35. | 62 | 96 | 3844 | 9216 | 5952 |
| 36. | 68 | 88 | 4624 | 7744 | 5984 |
| 37. | 68 | 87 | 4624 | 7569 | 5916 |
| 38. | 61 | 94 | 3721 | 8836 | 5734 |
| 39. | 70 | 84 | 4900 | 7056 | 5880 |
| 40. | 58 | 88 | 3364 | 7744 | 5104 |
| Jmlh | 2484 | 3481 | 155030 | 305019 | 215989 |

Dari tabel diketahui bahwa:

$$\sum X = 2484 \quad \sum X^2 = 155030 \quad \sum XY = 215989$$

$$\sum Y = 3481 \quad \sum Y^2 = 305019 \quad n = 40$$

$$JK_{reg(a)} = \frac{(\sum Y)^2}{n}$$

$$= \frac{(3481)^2}{40}$$

$$= \frac{12117351}{40}$$

$$= 302934,025$$

$$b = \frac{N(\sum XY) - \sum X \sum Y}{N \sum X^2 - (\sum X)^2}$$

$$b = \frac{40(215989) - 2484 \cdot 3481}{40 \cdot 155030 - (2484)^2}$$

$$b = \frac{8639560 - 8646804}{6201200 - 6170256}$$

$$b = \frac{-7244}{30944}$$

$$b = -0,23410031$$

$$JK_{reg[b/a]} = b \cdot \left(\sum XY - \frac{\sum X \sum Y}{n} \right)$$

$$= -0,2341003 \cdot \left(215989 - \frac{2484 \cdot 3481}{40} \right)$$

$$= -0,2341003 \cdot \left(215989 - \frac{8646804}{40} \right)$$

$$= -0,2341003 \cdot (215989 - 216170,1)$$

$$= -0,2341003 \cdot (-181,1)$$

$$= 42,39557$$

$$JK_{res} = \sum Y^2 - JK_{reg[b/a]} - JK_{reg[a]}$$

$$= 305019 - 42,395564 - 302934,03$$

$$= 542,57943$$

$$RJK_{reg[a]} = JK_{reg[a]}$$

$$= 302934,025$$

$$RJK_{reg[b/a]} = RJK_{reg[b/a]}$$

$$= 42,395566$$

$$RJK_{res} = \frac{RJK_{res}}{n-2}$$

$$= \frac{542,5794}{40-2}$$

$$= \frac{1869,0833}{38}$$

$$= 14,27840615$$

$$F_{hitung} = \frac{RJK_{reg(\frac{b}{a})}}{RJK_{res}}$$

$$F_{hitung} = \frac{42,395566}{14,27840615}$$

$$F_{hitung} = \frac{42,395566}{40-2}$$

$$F_{hitung} = 2,9692086$$

Ini berarti tidak ada pengaruh yang signifikan antara pola didik orang tua terhadap hasil belajar siswa SMP SATAP Negeri Mantigola Tahun pelajaran 2019/2020.

Lampiran 13 Dokumentasi



Gambar Sekolah



Gambar Ruang Guru



Gambar pembagian keisioner



Gambar kegiatan pembelajaran



PEMERINTAH KABUPATEN WAKATOBI
DINAS PENDIDIKAN DAN KEBUDAYAAN
SMP SATAP NEGERI MANTIGOLA



Sekretariat : Mantigola 1 Desa Mantigola Kec. Kaledupa Kab. Wakatobi Prov. Sultra

SURAT KETERANGAN SELESAI MELAKSANAKAN PENELITIAN

Nomor : 215/SMP Satap N. MTGL/XII/2020

Yang bertanda tangan di bawah ini :

Nama : **DARNI, S.Pd., M.Si**
NIP : 19741225 200502 1 003
Jabatan : Kepala Sekolah
Unit Kerja : SMP SATAP NEGERI MANTIGOLA
Alamat Kantor : Mantigola 1, Desa Mantigola, Kecamatan Kaledupa,
Kabupaten Wakatobi

Menerangkan dengan sesungguhnya bahwa :

Nama : **KAMALUDDIN**
NIM : 16010107011
Asal Perguruan Tinggi : IAIN Kendari
Program Studi : Tadris IPA
Pekerjaan : Mahasiswa

Telah selesai melaksanakan penelitian di SMP SATAP NEGERI MANTIGOLA mulai dilaksanakan dari tanggal 03 November 2020 sampai dengan 03 Desember 2020. Untuk memperoleh data guna penyusunan Tugas Akhir Skripsi dengan Judul :

***“PENGARUH POLA DIDIK ORANG TUA TERHADAP HASIL BELAJAR IPA
SISWA/MTs DI DESA MANTIGOLA KECAMATAN KALEDUPA
KABUPATEN WAKATOBI”***

Demikian keterangan penelitian ini dibuat untuk dapat digunakan sebagaimana mestinya.

Mantigola, 04 Desember 2020
Kepala Sekolah

DARNI, S.Pd., M.Si

NIP. 19741225 200502 1 003



PEMERINTAH PROVINSI SULAWESI TENGGARA
BADAN PENELITIAN DAN PENGEMBANGAN

Jl. Mayjend S. Parman No. 44 Kendari 93121

Website : balitbang_sulawesitenggara prov.go.id Email: badan litbang sultra01@gmail.com

Kendari, 03 Nopember 2020

Nomor : 070/7078/Balitbang/2020
ampiran : -
Perihal : Izin Penelitian

K e p a d a
Yth. Bupati Wakatobi
di -
Wangi-Wangi

Berdasarkan Surat Dekan FATIK IAIN Kendari Nomor : 1644/FATIK/TL.00/10/2020 tanggal 14 Oktober 2020 perihal tersebut di atas, Mahasiswa di bawah ini :

Nama : KAMALUDDIN
NIM : 16010107011
Program Studi : Tadris IPA
Pekerjaan : Mahasiswa
Lokasi Penelitian : Desa Mantigola Kec. Kaledupa Kab. Wakatobi

Bermaksud untuk Melakukan Penelitian/Pengambilan Data di Daerah/Kantor Saudara dalam rangka penyusunan KTI/Skripsi/Tesis/Disertasi, dengan judul :

***"PENGARUH POLA DIDIK ORANG TUA TERHADAP HASIL BELAJAR IPA
SISWA SMP/MTs DI DESA MANTIGOLA KECAMATAN KALEDUPA
KABUPATEN WAKATOBI"***

Yang akan dilaksanakan dari tanggal : 03 Nopember 2020 sampai selesai.

Sehubungan dengan hal tersebut diatas, pada prinsipnya kami menyetujui kegiatan dimaksud dengan ketentuan :

1. Senantiasa menjaga keamanan dan ketertiban serta mentaati perundang-undanganyang berlaku.
2. Tidak mengadakan kegiatan lain yang bertentangan dengan rencana semula.
3. Dalam setiap kegiatan dilapangan agar pihak Peneliti senantiasa koordinasi dengan pemerintah setempat.
4. Wajib menghormati Adat Istiadat yang berlaku di daerah setempat.
5. Menyerahkan 1 (satu) examplar copy hasil penelitian kepada Gubernur Sultra Cq.Kepala Badan Penelitian dan Pengembangan Provinsi Sulawesi Tenggara.
6. Surat izin akan dicabut kembali dan dinyatakan tidak berlaku apabila ternyata pemegang surat izin ini tidak mentaati ketentuan tersebut di atas.

Demikian Surat Izin Penelitian diberikan untuk digunakan sebagaimana mestinya.

an. GUBERNUR SULAWESI TENGGARA
KEPALA BADAN PENELITIAN & PENGEMBANGAN
PROV. SULAWESI TENGGARA,



Dr. Drs. LA ODE MUSTAFA MUCHTAR M.Si

Pembina Tk I Gol. IV/b
Nip. 19740104 199302 1 001

m b u s a n :

1. Gubernur Sulawesi Tenggara (sebagai laporan) di Kendari;
2. Dekan FATIK IAIN Kendari di Kendari;
3. Ketua Prodi Tadris IPA FATIK IAIN Kendari di Kendari;
4. Kepala Balitbang Kab. Wakatobi di Wangi-Wangi;
5. Camat Kaledupa di Tempat;
6. Kepala Desa Mantigola di Tempat;

BIODATA PENELITI

A. Data Pribadi

1. Nama : Kamaluddin
2. Tempat & Tanggal Lahir : 7Maret 1993
3. Jenis Kelamin : Laki-Laki
4. Agama : Islam
5. Alamat Asal : Mantigola
6. Telepon & HP : 082121970296
7. E-Mail : kamaluddinrahim58@gmail.com



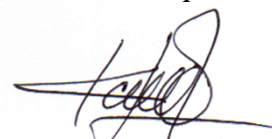
B. Data Keluarga

1. Nama Orang Tua
 - a. Ayah : Abdul Rahim
 - b. Ibu : Hapusaya
2. Nama Saudara Kandung
 - a. Kakak : Pilma, Salma Rahim, Tojeng, Haerani, Mansur,
 - b. Adik : Basteng, Restu Rahim, Selma Rahim, Wulandari Rahim

C. Riwayat Pendidikan Formal

1. SD : SDN Mantigola 2002-2007
2. MTS : MTS Kaledupa 2007-2010
3. SMA : MA Wakatobi 2010-2013
4. Universitas : IAIN Kendari 2016-2022

Kendari, 20 Juli 2022 M
06 Dzulqaidah 1443 H



Kamaluddin
Nim. 16010107011