**KISI-KISI ANGKET PENILAIAN PRODUK UNTUK GURU DAN VALIDATOR**

|  |  |  |  |
| --- | --- | --- | --- |
| **Aspek Penilaian** | **Indikator** | **Jumlah Butir Pernyataan** | **Nomor** |
| Materi | 1. Butir Soal pada Gasik Card | 21 | 1 – 21 |
| 1. Penilaian Bahasa | 9 | 22 - 30 |
| Media | 1. Tampilan Gasik Board | 11 | 1-11 |
| 1. Tampilan kartu (Gasik Card dan Gasik Point) | 12 | 12-23 |
| 1. Penyajian Gasik card (PPT) | 8 | 24-31 |
| 1. Aturan Permainan | 3 | 32 - 34 |
| 1. Desain Pembelajaran | 11 | 35-45 |

**LEMBAR EVALUASI DAN VALIDASI PERMAINAN GASIK 2.0**

**MATERI SUHU DAN KALOR**

Judul Program : Pengembangan Permainan Gasik 2.0 (Game Fisika Asyik) untuk Menumbuhkan Kompetensi Abad 21 Siswa SMP

Mata Pelajaran : IPA (Fisika)

Materi Pokok : Suhu dan Kalor

Sasaran Program : Siswa SMP

Bapak/ Ibu yang terhormat, Saya memohon bantuan Bapak/Ibu untuk mengisi angket berikut. Lembar validasi ditujukan untuk mengetahui pendapat Bapak/ Ibu tentang pengembangan Permainan Gasik 2.0 untuk menumbuhkan kompetensi abad 21. Kompetensi abad 21 yang difokuskan pada penelitian yaitu 4C yang terdiri dari (1) Berpikir Kritis dalam Memecahkan Masalah; (2) Kreativitas dan Inovasi; (3) Komunikasi; (4) Kolaborasi. Penilaian, saran dan koreksi dari Bapak/Ibu akan sangat bermanfaat untuk memperbaiki dan meningkatkan kualitas media ini. Atas perhatian dan kesediaannya untuk mengisi angket ini, saya ucapkan terima kasih.

**A.** **Petunjuk Pengisian**

Berilah tanda centang (√) pada kolom pilihan 1, 2, 3, 4 yang paling sesuai dengan aspek penilaian yang ada. Kriteria penilaian sebagai berikut:

SK = Sangat Kurang

K = Kurang

B = Baik

SB = Sangat Baik

**B. Penilaian Materi**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Indikator Penilaian** | **Kriteria Penilaian** | | | |
| **SK** | **K** | **B** | **SB** |
|  | **BUTIR SOAL PADA *GASIK CARD*** |  |  |  |  |
| 1. | Keterkaitan antara soal dengan Standar Kompetensi pada kurikulum |  |  |  |  |
| 2. | Keterkaitan antara soal dengan Kompetensi Dasar pada kurikulum |  |  |  |  |
| 3. | Keterkaitan antara soal dengan indikator pencapaian kompetensi |  |  |  |  |
| 4. | Keterkaitan soal dengan tingkat perkembangan intelektual peserta didik |  |  |  |  |
| 5. | Soal bervariasi sesuai dengan tingkatan kognitif |  |  |  |  |
| 6. | Soal menggunakan stimulus yang menarik (mendorong peserta didik untuk menyimak) |  |  |  |  |
| 7. | Soal menggunakan stimulus yang kontekstual (gambar, tabel, teks, video sesuai dengan dunia nyata) |  |  |  |  |
| 8. | Soal menggunakan stimulus yang jelas (gambar, tabel, teks, video sesuai dengan pertanyaan) |  |  |  |  |
| 9. | Keakuratan contoh dan kasus yang disajikan |  |  |  |  |
| 10. | Keakuratan data dan fakta |  |  |  |  |
| 11. | Keakuratan gambar, diagram dan ilustrasi |  |  |  |  |
| 12. | Kebenaran konsep yang disajikan dalam soal ataupun pembahasan |  |  |  |  |
| 13. | Pertanyaan pada soal jelas |  |  |  |  |
| 14. | Pilihan jawaban pada soal jelas (hanya terdapat satu jawaban yang benar) |  |  |  |  |
| 15. | Jawaban tersirat pada stimulus |  |  |  |  |
| 16. | Pembahasan mampu menjawab soal |  |  |  |  |
| 17. | Soal mengukur level kognitif penalaran (menganalisis, mengevaluasi, mencipta ) yang dalam penyelesaiannya dicirikan dengan salah satu atau lebih tahapan proses berikut:   * Transfer satu konsep ke konsep lainnya. * Memproses dan menerapkan informasi. * Mencari kaitan dari berbagai informasi yang berbeda-beda. * Menggunakan informasi untuk menyelesaikan masalah. * Menelaah ide dan informasi secara kritis. |  |  |  |  |
| 18. | Soal mampu mendorong berpikir kritis dalam memecahkan masalah |  |  |  |  |
| 19. | Tantangan dalam soal mampu mendorong kreativitas dan inovasi peserta didik |  |  |  |  |
| 20. | Tantangan dalam soal mampu menuntut komunikasi yang baik antar peserta didik |  |  |  |  |
| 21. | Tantangan dalam soal mampu menciptakan kolaborasi antar peserta didik |  |  |  |  |
|  | **PENILAIAN BAHASA** |  |  |  |  |
| 22. | Ketepatan struktur kalimat |  |  |  |  |
| 23. | Keefektifan kalimat |  |  |  |  |
| 24. | Kebakuan istilah |  |  |  |  |
| 25. | Keterbacaan pesan |  |  |  |  |
| 26. | Ketepatan penggunaan kaidah bahasa |  |  |  |  |
| 27. | Kemampuan memotivasi pesan atau informasi |  |  |  |  |
| 28. | Kesesuaian bahasa dengan tingkat perkembangan peserta didik |  |  |  |  |
| 29. | Keruntutan dan keterpaduan alur pikir |  |  |  |  |
| 30. | Konsistensi dalam penggunaan istilah, simbol, atau ikon. |  |  |  |  |

**C. Penilaian Media**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Indikator Penilaian** | **Kriteria Penilaian** | | | |
| **SK** | **K** | **B** | **SB** |
|  | ***GASIK BOARD*** |  |  |  |  |
| 1. | Nama papan permainan menarik |  |  |  |  |
| 2. | Kesesuaian ukuran papan |  |  |  |  |
| 3. | Kesesuaian bentuk papan |  |  |  |  |
| 4. | Kesesuaian pemilihan *background* papan dengan karakter peserta didik |  |  |  |  |
| 5. | Variasi desain papan |  |  |  |  |
| 6. | Kejelasan gambar |  |  |  |  |
| 7. | Kesesuaian proporsi gambar |  |  |  |  |
| 8. | Kesesuaian proporsi huruf |  |  |  |  |
| 9. | Kesesuaian pemilihan jenis huruf |  |  |  |  |
| 10. | Warna harmonis dan memperjelas fungsi |  |  |  |  |
| 11. | Pengaturan tata letak huruf dan gambar secara harmonis memiliki irama dan kesatuan serta konsisten. |  |  |  |  |
|  | ***GASIK CARD* DAN *GASIK POINT*** |  |  |  |  |
| 12. | Nama kartu menarik |  |  |  |  |
| 13. | Kesesuaian ukuran kartu |  |  |  |  |
| 14. | Kesesuaian bentuk kartu |  |  |  |  |
| 15. | Kesesuaian pemilihan *background* kartu dengan karakter peserta didik |  |  |  |  |
| 16. | Variasi Desain kartu |  |  |  |  |
| 17. | Kesesuaian ilustrasi gambar dengan materi |  |  |  |  |
| 18. | Kejelasan gambar |  |  |  |  |
| 19. | Kesesuaian proporsi gambar |  |  |  |  |
| 20. | Kesesuaian proporsi huruf |  |  |  |  |
| 21. | Kesesuaian pemilihan jenis huruf |  |  |  |  |
| 22. | Warna harmonis dan memperjelas fungsi |  |  |  |  |
| 23. | Pengaturan tata letak huruf dan gambar secara harmonis memiliki irama dan kesatuan serta konsisten. |  |  |  |  |
|  | **PENYAJIAN *GASIK CARD* (PPT)** |  |  |  |  |
| 24. | Pengoperasian sederhana |  |  |  |  |
| 25. | File tidak besar / berat |  |  |  |  |
| 26. | Aplikasi dapat dijalankan di berbagai spesifikasi *operating system* |  |  |  |  |
| 27. | Tulisan dapat terbaca dengan jelas |  |  |  |  |
| 28. | Suara yang ditampilkan sudah tepat dan jelas |  |  |  |  |
| 29. | Animasi, video atau gambar jelas |  |  |  |  |
| 30. | Tombol-tombol pada file berfungsi dengan baik |  |  |  |  |
| 31. | Pengaturan tata letak huruf dan gambar secara harmonis memiliki irama dan kesatuan serta konsisten. |  |  |  |  |
|  | **ATURAN PERMAINAN** |  |  |  |  |
| 32. | Aturan permainan jelas dan mudah dipahami |  |  |  |  |
| 33. | Misi permainan jelas |  |  |  |  |
| 34. | Bagan petunjuk cara bermain jelas |  |  |  |  |
|  | **DESAIN PEMBELAJARAN** |  |  |  |  |
| 35. | Tantangan dalam permainan mampu mendorong berpikir kritis dalam memecahkan masalah pada soal |  |  |  |  |
| 36. | Tantangan dalam permainan mampu mendorong kreativitas dan inovasi peserta didik |  |  |  |  |
| 37. | Tantangan dalam permainan mampu menuntut komunikasi yang baik antar peserta didik |  |  |  |  |
| 38. | Tantangan dalam permainan mampu menciptakan kolaborasi antar peserta didik |  |  |  |  |
| 39. | Permainan dapat digunakan pada pembelajaran di kelas |  |  |  |  |
| 40. | Permainan mampu memberikan umpan balik / evaluasi materi pembelajaran |  |  |  |  |
| 41. | Permainan mampu menimbulkan suasana menyenangkan |  |  |  |  |
| 42. | Permainan membuat pembelajaran lebih bermakna |  |  |  |  |
| 43. | Permainan mampu melibatkan peserta didik pada proses pembelajaran |  |  |  |  |
| 44. | Permainan mendorong peserta didik lebih aktif pada kegiatan pembelajaran |  |  |  |  |
| 45. | Permainan fleksibel dan dapat digunakan untuk materi lain. |  |  |  |  |

**D.** **Komentar dan Saran**

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**E. Kekurangan dan Kelebihan dari Media Permainan Gasik 2.0**

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**F. Simpulan**

Media permainan Gasik 2.0 (*Game Fisika Asyik*) pada materi suhu dan kalor ini dinyatakan \*) :

1. Layak digunakan di lapangan tanpa ada revisi.

2. Layak digunakan di lapangan dengan revisi.

3. Tidak layak digunakan di lapangan.

\*) Lingkari salah satu

Demak, ....................

Evaluator/Validator

..............................

**Data Validator**

Validator adalah guru/dosen lulusan S2 yang ahli dalam bidang Fisika dan media pembelajaran.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Validator** | **Nama** | **NIP /NIDN** | **Instansi** | **Bidang Keahlian** |
| 1. | Rambu Ririnsia Harra Hau, S. Si.,M. Pd | 0802019101 | Universitas Nusa Nipa Indonesia | Fisika dan pendidikan fisika |
| 2. | Ahmad Fauzi, M.Pd | 19790205 200312 1 001 | Pendidikan Fisika UNS | Media Pembelajaran Fisika |
| 3. | Rosyidatul Munawaroh, M.Pd. | 199003072019022007 | SMP Negeri 3 Juwana | Fisika |
| 4. | Husna Noor Mufida, M.Pd. | - | SMP Negeri 2 Dawe Kudus | Fisika |

**HASIL VALIDASI OLEH AHLI**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Indikator Penilaian** | **Validator1** | **Validator2** | **Validator3** | **Validator4** | **Persentase Skor** | **rata-rata tiap aspek** |
| **Indikator Penilaian Materi** | X.1 | 3 | 4 | 4 | 3 | 87.50 | 85.42 |
| X.2 | 3 | 4 | 4 | 3 | 87.50 |
| X.3 | 3 | 4 | 3 | 3 | 81.25 |
| X.4 | 3 | 4 | 3 | 3 | 81.25 |
| X.5 | 4 | 4 | 3 | 3 | 87.50 |
| X.6 | 4 | 4 | 3 | 4 | 93.75 |
| X.7 | 4 | 4 | 3 | 3 | 87.50 |
| X.8 | 4 | 3 | 3 | 3 | 81.25 |
| X.9 | 3 | 4 | 3 | 3 | 81.25 |
| X.10 | 2 | 3 | 3 | 3 | 68.75 |
| X.11 | 2 | 4 | 3 | 3 | 75.00 |
| X.12 | 3 | 3 | 4 | 3 | 81.25 |
| X.13 | 3 | 4 | 3 | 4 | 87.50 |
| X.14 | 4 | 4 | 4 | 4 | 100.00 |
| X.15 | 3 | 3 | 3 | 3 | 75.00 |
| X.16 | 3 | 4 | 4 | 4 | 93.75 |
| X.17 | 4 | 3 | 3 | 3 | 81.25 |
| X.18 | 4 | 4 | 4 | 4 | 100.00 |
| X.19 | 4 | 3 | 3 | 3 | 81.25 |
| X.20 | 3 | 4 | 3 | 4 | 87.50 |
| X.21 | 4 | 4 | 3 | 4 | 93.75 |
| **rata-rata per aspek** | **83.33** | **92.86** | **82.14** | **83.33** |  |
| X.22 | 3 | 3 | 3 | 4 | 81.25 | 81.94 |
| X.23 | 3 | 3 | 2 | 4 | 75.00 |
| X.24 | 4 | 3 | 3 | 4 | 87.50 |
| X.25 | 4 | 4 | 3 | 3 | 87.50 |
| X.26 | 4 | 3 | 3 | 3 | 81.25 |
| X.27 | 4 | 3 | 3 | 3 | 81.25 |
| X.28 | 3 | 3 | 3 | 3 | 75.00 |
| X.29 | 3 | 4 | 3 | 3 | 81.25 |
| X.30 | 4 | 3 | 3 | 4 | 87.50 |
|  | **rata-rata per aspek** | **88.89** | **80.56** | **72.22** | **86.11** |  |
| **Indikator Penilaian Media** | Y.1 | 4 | 4 | 4 | 4 | 100.00 | 85.23 |
| Y.2 | 4 | 3 | 4 | 4 | 93.75 |
| Y.3 | 4 | 4 | 4 | 4 | 100.00 |
| Y.4 | 4 | 3 | 3 | 4 | 87.50 |
| Y.5 | 4 | 4 | 3 | 3 | 87.50 |
| Y.6 | 3 | 4 | 3 | 4 | 87.50 |
| Y.7 | 3 | 3 | 3 | 3 | 75.00 |
| Y.8 | 3 | 3 | 3 | 4 | 81.25 |
| Y.9 | 3 | 3 | 3 | 3 | 75.00 |
| Y.10 | 3 | 3 | 3 | 3 | 75.00 |
| Y.11 | 3 | 3 | 3 | 3 | 75.00 |
| **rata-rata per aspek** | **86.36** | **84.09** | **81.82** | **88.64** |  |
| Y.12 | 4 | 4 | 3 | 4 | 93.75 | 84.90 |
| Y.13 | 4 | 4 | 3 | 4 | 93.75 |
| Y.14 | 4 | 4 | 3 | 4 | 93.75 |
| Y.15 | 4 | 3 | 3 | 3 | 81.25 |
| Y.16 | 4 | 4 | 2 | 3 | 81.25 |
| Y.17 | 3 | 3 | 3 | 4 | 81.25 |
| Y.18 | 3 | 4 | 3 | 4 | 87.50 |
| Y.19 | 3 | 4 | 3 | 4 | 87.50 |
| Y.20 | 3 | 3 | 3 | 3 | 75.00 |
| Y.21 | 3 | 3 | 3 | 3 | 75.00 |
| Y.22 | 3 | 3 | 3 | 4 | 81.25 |
| Y.23 | 3 | 4 | 3 | 4 | 87.50 |
| **rata-rata per aspek** | **85.42** | **89.58** | **72.92** | **91.67** |  |
| Y.24 | 4 | 4 | 3 | 4 | 93.75 | 89.84 |
| Y.25 | 4 | 4 | 3 | 4 | 93.75 |
| Y.26 | 4 | 4 | 3 | 4 | 93.75 |
| Y.27 | 4 | 3 | 3 | 4 | 87.50 |
| Y.28 | 4 | 4 | 3 | 3 | 87.50 |
| Y.29 | 4 | 4 | 3 | 3 | 87.50 |
| Y.30 | 4 | 3 | 3 | 4 | 87.50 |
| Y.31 | 4 | 3 | 3 | 4 | 87.50 |
| **rata-rata per aspek** | **100.00** | **90.63** | **75.00** | **93.75** |  |
| Y.32 | 3 | 3 | 3 | 4 | 81.25 | 83.33 |
| Y.33 | 3 | 3 | 3 | 4 | 81.25 |
| Y.34 | 3 | 4 | 3 | 4 | 87.50 |
| **rata-rata per aspek** | **75.00** | **83.33** | **75.00** | **100.00** |  |
| Y.35 | 4 | 4 | 4 | 3 | 93.75 | 93.75 |
| Y.36 | 4 | 4 | 4 | 3 | 93.75 |
| Y.37 | 4 | 4 | 3 | 4 | 93.75 |
| Y.38 | 4 | 4 | 4 | 4 | 100.00 |
| Y.39 | 4 | 4 | 4 | 4 | 100.00 |
| Y.40 | 4 | 3 | 4 | 3 | 87.50 |
| Y.41 | 4 | 4 | 4 | 4 | 100.00 |
| Y.42 | 3 | 4 | 4 | 4 | 93.75 |
| Y.43 | 3 | 3 | 4 | 4 | 87.50 |
| Y.44 | 3 | 3 | 4 | 4 | 87.50 |
| Y.45 | 3 | 4 | 4 | 4 | 93.75 |
|  | **rata-rata per aspek** | **90.91** | **93.18** | **97.73** | **93.18** |  |
| **rata-rata penilaian** | | **87.13** | **87.75** | **79.55** | **90.95** | **86.34** |  |

**REKAP KOMENTAR DAN SARAN PERBAIKAN**

|  |  |  |
| --- | --- | --- |
| **Responden** | **Saran/Komentar** | **Keputusan penilaian** |
| **Validator 2** | 1. tampilan media Gasik sudah bagus. 2. untuk font judul kartu Gasik... dan Game fisika lebih baik dibuat dengan font yang lebih mudah dimengerti hurufnya. 3. pemilihan warna huruf dan background memang baiknya kontras, yang penting malah tidak menganggu konsentrasi siswa. 4. Alur untuk soal (yang dilakukan tim penyaji dan tim  penjawab harusnya berbeda, menunjukkan aksi dan reaksi. 5. pada soal-soal yang butuh kemampuan berpikir tingkat tinggi perlu ditambahkan clue-clue untuk membantu siswa mengarahkan menjawab soal. 6. untuk menjalankan permainan gasik di PPT pastikan slide PPT ditambahkan link-link sehingga sewaktu-waktu ada permainan yang harus meloncat siswa tinggal klik linknya. 7. Perlu ditambahkan panduan detail untuk guru seperti panduan bimbingan jika diterapkan dalam 1 kelas. kalau jumlah kelompoknya banyak sangat mungkin guru akan mengalami kerepotan melayani pertanyaan siswanya. | Layak digunakan di lapangan dengan revisi. |
| **Validator 3** | 1. Pemilihan bahasa perlu lebih disederhanakan agar lebih mudah dipahami.  2. Media Gasik akan lebih baik lagi jika dilanjutkan menjadi program pemainan online sehingga sangat cocok digunakan untuk pembelajaran daring. | Layak digunakan di lapangan tanpa ada revisi. |
| **Validator 4** | Bagus. Inovatif. Sebaiknya siswa (anggota tim penyaji) diberi kesempatan untuk mengoperasikan PPT agar melatih keterampilan literasi teknologinya. | Layak digunakan di lapangan tanpa ada revisi. |

* **VALIDITAS ISI V’ AIKEN PENILAIAN VALIDATOR**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Aspek | **Butir** | **Validator** | | | | **proses analisis** | | | | | | **V** | **Kriteria** | **V** | **Kriteria** |
| **1** | **2** | **3** | **4** |  |  | **s3** | **s4** | **S** | **n(c-1)** |
| Butir Soal Pada Gasik Card | X.1 | 3 | 4 | 4 | 3 | 2 | 3 | 3 | 2 | 10 | 12 | 0.83 | Tinggi | 0.81 | Tinggi |
| X.2 | 3 | 4 | 4 | 3 | 2 | 3 | 3 | 2 | 10 | 12 | 0.83 | Tinggi |
| X.3 | 3 | 4 | 3 | 3 | 2 | 3 | 2 | 2 | 9 | 12 | 0.75 | Sedang |
| X.4 | 3 | 4 | 3 | 3 | 2 | 3 | 2 | 2 | 9 | 12 | 0.75 | Sedang |
| X.5 | 4 | 4 | 3 | 3 | 3 | 3 | 2 | 2 | 10 | 12 | 0.83 | Tinggi |
| X.6 | 4 | 4 | 3 | 4 | 3 | 3 | 2 | 3 | 11 | 12 | 0.92 | Tinggi |
| X.7 | 4 | 4 | 3 | 3 | 3 | 3 | 2 | 2 | 10 | 12 | 0.83 | Tinggi |
| X.8 | 4 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 9 | 12 | 0.75 | Sedang |
| X.9 | 3 | 4 | 3 | 3 | 2 | 3 | 2 | 2 | 9 | 12 | 0.75 | Sedang |
| X.10 | 2 | 3 | 3 | 3 | 1 | 2 | 2 | 2 | 7 | 12 | 0.58 | Sedang |
| X.11 | 2 | 4 | 3 | 3 | 1 | 3 | 2 | 2 | 8 | 12 | 0.67 | Sedang |
| X.12 | 3 | 3 | 4 | 3 | 2 | 2 | 3 | 2 | 9 | 12 | 0.75 | Sedang |
| X.13 | 3 | 4 | 3 | 4 | 2 | 3 | 2 | 3 | 10 | 12 | 0.83 | Tinggi |
| X.14 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 12 | 12 | 1.00 | Tinggi |
| X.15 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 8 | 12 | 0.67 | Sedang |
| X.16 | 3 | 4 | 4 | 4 | 2 | 3 | 3 | 3 | 11 | 12 | 0.92 | Tinggi |
| X.17 | 4 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 9 | 12 | 0.75 | Sedang |
| X.18 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 12 | 12 | 1.00 | Tinggi |
| X.19 | 4 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 9 | 12 | 0.75 | Sedang |
| X.20 | 3 | 4 | 3 | 4 | 2 | 3 | 2 | 3 | 10 | 12 | 0.83 | Tinggi |
| X.21 | 4 | 4 | 3 | 4 | 3 | 3 | 2 | 3 | 11 | 12 | 0.92 | Tinggi |
| Bahasa | X.22 | 3 | 3 | 3 | 4 | 2 | 2 | 2 | 3 | 9 | 12 | 0.75 | Sedang | 0.76 | Sedang |
| X.23 | 3 | 3 | 2 | 4 | 2 | 2 | 1 | 3 | 8 | 12 | 0.67 | Sedang |
| X.24 | 4 | 3 | 3 | 4 | 3 | 2 | 2 | 3 | 10 | 12 | 0.83 | Tinggi |
| X.25 | 4 | 4 | 3 | 3 | 3 | 3 | 2 | 2 | 10 | 12 | 0.83 | Tinggi |
| X.26 | 4 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 9 | 12 | 0.75 | Sedang |
| X.27 | 4 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 9 | 12 | 0.75 | Sedang |
| X.28 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 8 | 12 | 0.67 | Sedang |
| X.29 | 3 | 4 | 3 | 3 | 2 | 3 | 2 | 2 | 9 | 12 | 0.75 | Sedang |
| X.30 | 4 | 3 | 3 | 4 | 3 | 2 | 2 | 3 | 10 | 12 | 0.83 | Tinggi |
| Gasik Board | Y.1 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 12 | 12 | 1.00 | Tinggi | 0.80 | Tinggi |
| Y.2 | 4 | 3 | 4 | 4 | 3 | 2 | 3 | 3 | 11 | 12 | 0.92 | Tinggi |
| Y.3 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 12 | 12 | 1.00 | Tinggi |
| Y.4 | 4 | 3 | 3 | 4 | 3 | 2 | 2 | 3 | 10 | 12 | 0.83 | Tinggi |
| Y.5 | 4 | 4 | 3 | 3 | 3 | 3 | 2 | 2 | 10 | 12 | 0.83 | Tinggi |
| Y.6 | 3 | 4 | 3 | 4 | 2 | 3 | 2 | 3 | 10 | 12 | 0.83 | Tinggi |
| Y.7 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 8 | 12 | 0.67 | Sedang |
| Y.8 | 3 | 3 | 3 | 4 | 2 | 2 | 2 | 3 | 9 | 12 | 0.75 | Sedang |
| Y.9 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 8 | 12 | 0.67 | Sedang |
| Y.10 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 8 | 12 | 0.67 | Sedang |
| Y.11 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 8 | 12 | 0.67 | Sedang |
| Gasik Card dan Gasik Point | Y.12 | 4 | 4 | 3 | 4 | 3 | 3 | 2 | 3 | 11 | 12 | 0.92 | Tinggi | 0.80 | Sedang |
| Y.13 | 4 | 4 | 3 | 4 | 3 | 3 | 2 | 3 | 11 | 12 | 0.92 | Tinggi |
| Y.14 | 4 | 4 | 3 | 4 | 3 | 3 | 2 | 3 | 11 | 12 | 0.92 | Tinggi |
| Y.15 | 4 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 9 | 12 | 0.75 | Sedang |
| Y.16 | 4 | 4 | 2 | 3 | 3 | 3 | 1 | 2 | 9 | 12 | 0.75 | Sedang |
| Y.17 | 3 | 3 | 3 | 4 | 2 | 2 | 2 | 3 | 9 | 12 | 0.75 | Sedang |
| Y.18 | 3 | 4 | 3 | 4 | 2 | 3 | 2 | 3 | 10 | 12 | 0.83 | Tinggi |
| Y.19 | 3 | 4 | 3 | 4 | 2 | 3 | 2 | 3 | 10 | 12 | 0.83 | Tinggi |
| Y.20 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 8 | 12 | 0.67 | Sedang |
| Y.21 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 8 | 12 | 0.67 | Sedang |
| Y.22 | 3 | 3 | 3 | 4 | 2 | 2 | 2 | 3 | 9 | 12 | 0.75 | Sedang |
| Y.23 | 3 | 4 | 3 | 4 | 2 | 3 | 2 | 3 | 10 | 12 | 0.83 | Tinggi |
| Penyajian Gasik Card (ppt) | Y.24 | 4 | 4 | 3 | 4 | 3 | 3 | 2 | 3 | 11 | 12 | 0.92 | Tinggi | 0.86 | Tinggi |
| Y.25 | 4 | 4 | 3 | 4 | 3 | 3 | 2 | 3 | 11 | 12 | 0.92 | Tinggi |
| Y.26 | 4 | 4 | 3 | 4 | 3 | 3 | 2 | 3 | 11 | 12 | 0.92 | Tinggi |
| Y.27 | 4 | 3 | 3 | 4 | 3 | 2 | 2 | 3 | 10 | 12 | 0.83 | Tinggi |
| Y.28 | 4 | 4 | 3 | 3 | 3 | 3 | 2 | 2 | 10 | 12 | 0.83 | Tinggi |
| Y.29 | 4 | 4 | 3 | 3 | 3 | 3 | 2 | 2 | 10 | 12 | 0.83 | Tinggi |
| Y.30 | 4 | 3 | 3 | 4 | 3 | 2 | 2 | 3 | 10 | 12 | 0.83 | Tinggi |
| Y.31 | 4 | 3 | 3 | 4 | 3 | 2 | 2 | 3 | 10 | 12 | 0.83 | Tinggi |
| Aturan Permainan | Y.32 | 3 | 3 | 3 | 4 | 2 | 2 | 2 | 3 | 9 | 12 | 0.75 | Sedang | 0.78 | Sedang |
| Y.33 | 3 | 3 | 3 | 4 | 2 | 2 | 2 | 3 | 9 | 12 | 0.75 | Sedang |
| Y.34 | 3 | 4 | 3 | 4 | 2 | 3 | 2 | 3 | 10 | 12 | 0.83 | Tinggi |
| Desain Pembelajaran | Y.35 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 2 | 11 | 12 | 0.92 | Tinggi | 0.92 | Tinggi |
| Y.36 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 2 | 11 | 12 | 0.92 | Tinggi |
| Y.37 | 4 | 4 | 3 | 4 | 3 | 3 | 2 | 3 | 11 | 12 | 0.92 | Tinggi |
| Y.38 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 12 | 12 | 1.00 | Tinggi |
| Y.39 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 12 | 12 | 1.00 | Tinggi |
| Y.40 | 4 | 3 | 4 | 3 | 3 | 2 | 3 | 2 | 10 | 12 | 0.83 | Tinggi |
| Y.41 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 12 | 12 | 1.00 | Tinggi |
| Y.42 | 3 | 4 | 4 | 4 | 2 | 3 | 3 | 3 | 11 | 12 | 0.92 | Tinggi |
| Y.43 | 3 | 3 | 4 | 4 | 2 | 2 | 3 | 3 | 10 | 12 | 0.83 | Tinggi |
| Y.44 | 3 | 3 | 4 | 4 | 2 | 2 | 3 | 3 | 10 | 12 | 0.83 | Tinggi |
| Y.45 | 3 | 4 | 4 | 4 | 2 | 3 | 3 | 3 | 11 | 12 | 0.92 | Tinggi |
| Rata-rata V’aiken total | | | | | | | | | | | | **0.82** | | | **Tinggi** |

* **VALIDITAS DAN RELIABILITAS ANGKET PENILAIAN PRODUK**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case Processing Summary** | | | |
|  | | N | % |
| Cases | Valid | 7 | 100.0 |
| Excludeda | 0 | .0 |
| Total | 7 | 100.0 |
| a. Listwise deletion based on all variables in the procedure. | | | |

|  |  |
| --- | --- |
| **Reliability Statistics** | |
| Cronbach's Alpha | N of Items |
| .867 | 77 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item-Total Statistics** | | | | |
|  | Scale Mean if Item Deleted | Scale Variance if Item Deleted | Corrected Item-Total Correlation | Cronbach's Alpha if Item Deleted |
| X.1 | 529.00 | 1763.333 | .446 | .865 |
| X.2 | 528.86 | 1781.476 | .046 | .867 |
| X.3 | 529.29 | 1754.905 | .697 | .865 |
| X.4 | 529.14 | 1747.143 | .810 | .864 |
| X.5 | 529.00 | 1750.000 | .745 | .864 |
| X.6 | 528.86 | 1749.476 | .831 | .864 |
| X.7 | 529.00 | 1750.000 | .745 | .864 |
| X.8 | 528.86 | 1768.143 | .371 | .866 |
| X.9 | 529.29 | 1754.905 | .697 | .865 |
| X.10 | 529.43 | 1752.286 | .534 | .864 |
| X.11 | 529.29 | 1744.571 | .609 | .864 |
| X.12 | 529.14 | 1770.476 | .286 | .866 |
| X.13 | 529.00 | 1746.667 | .821 | .864 |
| X.14 | 528.57 | 1783.619 | .000 | .867 |
| X.15 | 529.43 | 1761.952 | .678 | .865 |
| X.16 | 528.86 | 1762.810 | .502 | .865 |
| X.17 | 529.29 | 1764.905 | .451 | .865 |
| X.18 | 528.57 | 1783.619 | .000 | .867 |
| X.19 | 529.00 | 1750.000 | .745 | .864 |
| X.20 | 529.29 | 1761.571 | .532 | .865 |
| X.21 | 529.00 | 1757.333 | .580 | .865 |
| X.22 | 529.00 | 1746.667 | .821 | .864 |
| X.23 | 529.14 | 1730.810 | .797 | .863 |
| X.24 | 529.00 | 1756.667 | .595 | .865 |
| X.25 | 529.14 | 1757.810 | .569 | .865 |
| X.26 | 529.14 | 1757.143 | .584 | .865 |
| X.27 | 529.14 | 1757.810 | .569 | .865 |
| X.28 | 529.14 | 1747.143 | .810 | .864 |
| X.29 | 529.43 | 1761.952 | .678 | .865 |
| X.30 | 528.71 | 1767.571 | .500 | .866 |
| Total.X | 427.43 | 1099.619 | .945 | .858 |
| Y.1 | 528.71 | 1765.571 | .564 | .865 |
| Y.2 | 529.00 | 1755.667 | .415 | .865 |
| Y.3 | 528.71 | 1765.571 | .564 | .865 |
| Y.4 | 529.14 | 1764.476 | .420 | .865 |
| Y.5 | 529.14 | 1757.143 | .584 | .865 |
| Y.6 | 529.00 | 1746.667 | .821 | .864 |
| Y.7 | 529.43 | 1761.952 | .678 | .865 |
| Y.8 | 529.43 | 1743.619 | .686 | .864 |
| Y.9 | 529.43 | 1761.952 | .678 | .865 |
| Y.10 | 529.14 | 1747.143 | .810 | .864 |
| Y.11 | 529.14 | 1747.143 | .810 | .864 |
| Y.12 | 528.86 | 1749.476 | .831 | .864 |
| Y.13 | 528.86 | 1749.476 | .831 | .864 |
| Y.14 | 528.86 | 1749.476 | .831 | .864 |
| Y.15 | 528.86 | 1768.143 | .371 | .866 |
| Y.16 | 529.43 | 1762.952 | .348 | .865 |
| Y.17 | 529.29 | 1761.571 | .532 | .865 |
| Y.18 | 529.00 | 1746.667 | .821 | .864 |
| Y.19 | 528.86 | 1764.810 | .453 | .865 |
| Y.20 | 529.43 | 1761.952 | .678 | .865 |
| Y.21 | 529.29 | 1780.238 | .076 | .867 |
| Y.22 | 529.14 | 1754.476 | .644 | .865 |
| Y.23 | 529.00 | 1746.667 | .821 | .864 |
| Y.24 | 528.86 | 1749.476 | .831 | .864 |
| Y.25 | 529.00 | 1757.333 | .580 | .865 |
| Y.26 | 528.86 | 1749.476 | .831 | .864 |
| Y.27 | 528.86 | 1774.810 | .208 | .866 |
| Y.28 | 529.14 | 1757.143 | .584 | .865 |
| Y.29 | 529.00 | 1750.000 | .745 | .864 |
| Y.30 | 528.86 | 1749.476 | .831 | .864 |
| Y.31 | 528.86 | 1774.810 | .208 | .866 |
| Y.32 | 529.14 | 1754.476 | .644 | .865 |
| Y.33 | 529.00 | 1746.667 | .821 | .864 |
| Y.34 | 529.00 | 1772.667 | .237 | .866 |
| Y.35 | 528.71 | 1784.238 | -.024 | .867 |
| Y.36 | 528.86 | 1766.143 | .420 | .866 |
| Y.37 | 529.00 | 1756.667 | .595 | .865 |
| Y.38 | 528.71 | 1765.571 | .564 | .865 |
| Y.39 | 528.86 | 1772.810 | .257 | .866 |
| Y.40 | 528.71 | 1784.238 | -.024 | .867 |
| Y.41 | 528.57 | 1783.619 | .000 | .867 |
| Y.42 | 528.86 | 1762.810 | .502 | .865 |
| Y.43 | 529.00 | 1770.000 | .296 | .866 |
| Y.44 | 528.86 | 1788.143 | -.115 | .867 |
| Y.45 | 528.71 | 1780.905 | .081 | .867 |
| Total.Y | 371.43 | 922.619 | .961 | .894 |

**Lampiran**

**Perbaikan Produk Sesuai Saran**

* **Segi Materi**

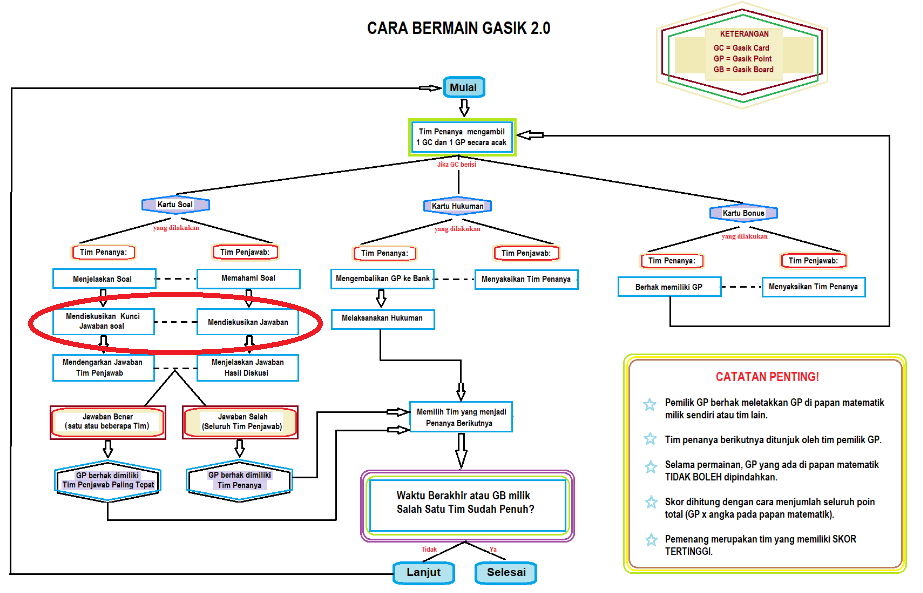
|  |  |  |
| --- | --- | --- |
| **No** | **Sebelum revisi** | **Setelah Revisi** |
| 1 |  |  |
| Pada Kartu Soal, beberapa kartu belum ada stimulus yang berperan sebagai clue atau petunjuk. Huruf juga masih terlalu kecil. Sehingga ditambahkan gambar yang membantu siswa dalam menemukan jawaban serta memperbesar huruf. | |
| 2 |  |  |
|  |  |
| Gambar pada kartu soal masih kurang sesuai. | |
| 3 |  |  |
| Beberapa jawaban belum terdapat gambar atau data yang mendukung penjelasan, kemudian ditambahkan gambar aliran kalor. | |
| 4 |  |  |
| Pada soal yang sulit, diberikan keterangan waktu tambahan pada kartunya. | |

* **Segi Media (Tampilan Kartu)**

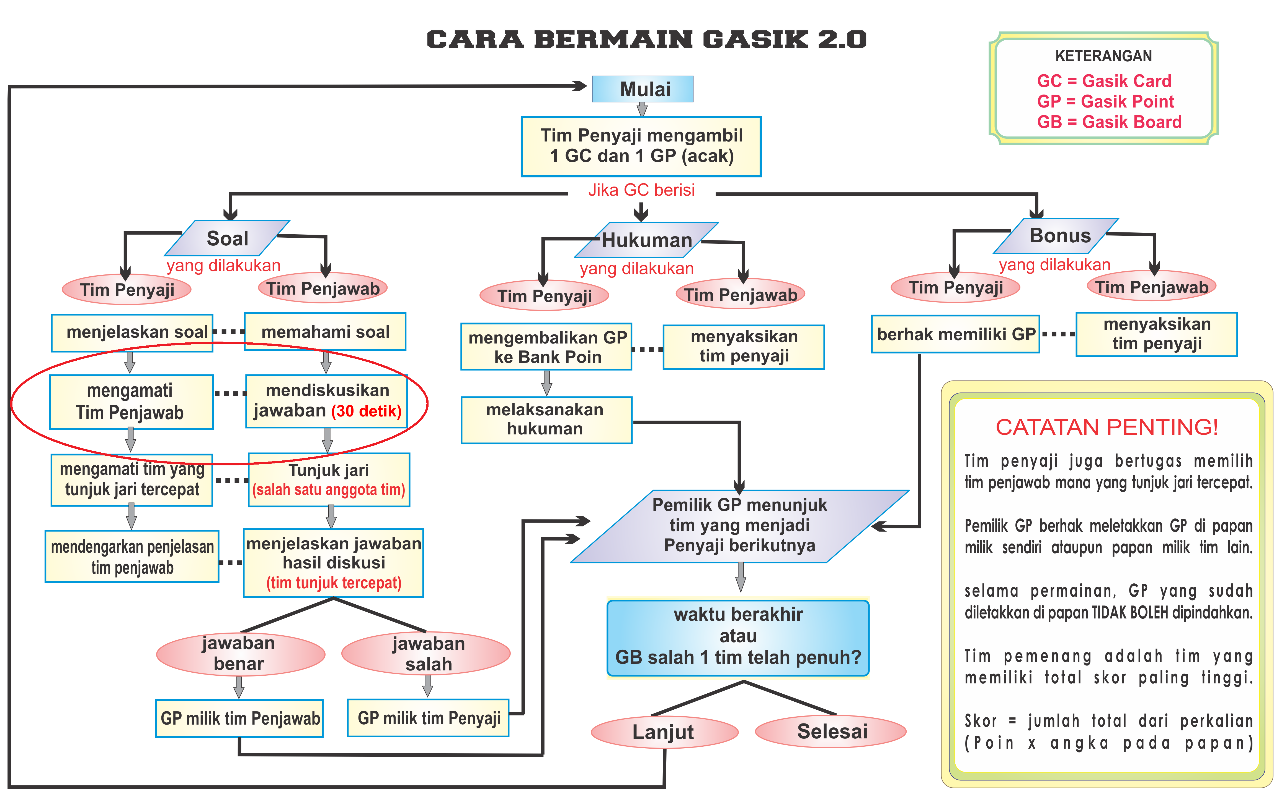
|  |  |  |
| --- | --- | --- |
| **No** | **Sebelum revisi** | **Setelah Revisi** |
| **1** |  |  |
| Pada tampilan slide ditambah link menuju home dan slide sebelumnya | |
| 2 |  |  |
| Perbaikan pada kartu Bonus. Dengan penambahan gambar dan info-info tentang keterampilan abad 21. | |
| 3 |  |  |
| Perbaikan pada kartu Hukuman. Dengan penambahan gambar dan info-info tentang sosial, budaya dan nasionalisme. Sehingga tidak hanya sebatas pengurangan skor. | |
| 4 |  |  |
| Pada tampilan pembahsan diberi link slide sebelumnya, agar memudahkan kembali pada soal. | |

* **Segi Media (Aturan Permainan)**

Huruf diperbesar dan aktivitas tim Penyaji pada Kartu soal diubah agar terjadi interaksi antara Tim Penyaji dan Tim Penjawab.

****

Gambar Bagan aturan permainan Sebelum Revisi



Gambar Bagan aturan permainan Sebelum Revisi

**DAFTAR SISWA KELAS EKSPERIMEN**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Kode** | **Induk** | **L/P** |  | **Kode** | **Induk** | **L/P** |  | **Kode** | **Induk** | **L/P** |
|  | 7040 | L |  |  | 7102 | P |  |  | 7096 | P |
|  | 7051 | L |  |  | 7119 | P |  |  | 7112 | P |
|  | 7055 | L |  |  | 7256 | P |  |  | 7114 | P |
|  | 7062 | P |  |  | 7140 | P |  |  | 7151 | L |
|  | 7063 | P |  |  | 7146 | L |  |  | 7177 | L |
|  | 7068 | L |  |  | 7148 | L |  |  |  |  |
|  | 7082 | P |  |  | 7157 | L |  |  |  |  |
|  | 7093 | P |  |  | 7169 | L |  |  |  |  |
|  | 7100 | P |  |  | 7172 | L |  |  |  |  |
|  | 7113 | L |  |  | 7185 | L |  |  |  |  |
|  | 7117 | P |  |  | 7193 | L |  |  |  |  |
|  | 7132 | P |  |  | 7194 | P |  |  |  |  |
|  | 7142 | P |  |  | 7198 | P |  |  |  |  |
|  | 7162 | L |  |  | 7202 | P |  |  |  |  |
|  | 7175 | L |  |  | 7227 | P |  |  |  |  |
|  | 7179 | L |  |  | 7237 | P |  |  |  |  |
|  | 7188 | L |  |  | 7088 | P |  |  |  |  |
|  | 7199 | P |  |  | 7137 | P |  |  |  |  |
|  | 7204 | P |  |  | 7111 | L |  |  |  |  |
|  | 7208 | P |  |  | 7147 | L |  |  |  |  |
|  | 7221 | L |  |  | 7075 | L |  |  |  |  |
|  | 7230 | P |  |  | 7105 | P |  |  |  |  |
|  | 7233 | P |  |  | 7144 | P |  |  |  |  |
|  | 7235 | P |  |  | 7173 | L |  |  |  |  |
|  | 7244 | L |  |  | 7196 | P |  |  |  |  |
|  | 7249 | P |  |  | 7209 | P |  |  |  |  |
|  | 7109 | P |  |  | 7213 | P |  |  |  |  |
|  | 7107 | P |  |  | 7214 | L |  |  |  |  |
|  | 7115 | P |  |  | 7247 | P |  |  |  |  |
|  | 7254 | L |  |  | 7037 | L |  |  |  |  |
|  | 7057 | L |  |  | 7038 | P |  |  |  |  |
|  | 7061 | P |  |  | 7058 | P |  |  |  |  |
|  | 7069 | P |  |  | 7066 | P |  |  |  |  |
|  | 7087 | L |  |  | 7072 | P |  |  |  |  |
|  | 7098 | P |  |  | 7091 | P |  |  |  |  |

**DAFTAR SISWA KELAS KONTROL**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Kode** | **Induk** | **L/P** |  | **Kode** | **Induk** | **L/P** |  | **Kode** | **Induk** | **L/P** |
|  | 7257 | L |  |  | 7305 | L |  |  | 7131 | P |
|  | 7258 | P |  |  | 7308 | P |  |  | 7134 | P |
|  | 7276 | L |  |  | 7323 | P |  |  | 7207 | P |
|  | 7277 | L |  |  | 7379 | L |  |  | 7239 | P |
|  | 7283 | P |  |  | 7398 | P |  |  | 7205 | P |
|  | 7284 | P |  |  | 7414 | P |  |  |  |  |
|  | 7302 | P |  |  | 7421 | L |  |  |  |  |
|  | 7318 | P |  |  | 7269 | P |  |  |  |  |
|  | 7320 | P |  |  | 7297 | P |  |  |  |  |
|  | 7336 | P |  |  | 7304 | L |  |  |  |  |
|  | 7348 | P |  |  | 7309 | P |  |  |  |  |
|  | 7352 | L |  |  | 7310 | P |  |  |  |  |
|  | 7362 | L |  |  | 7324 | P |  |  |  |  |
|  | 7367 | L |  |  | 7337 | L |  |  |  |  |
|  | 7369 | L |  |  | 7342 | P |  |  |  |  |
|  | 7373 | L |  |  | 7403 | P |  |  |  |  |
|  | 7389 | P |  |  | 7408 | L |  |  |  |  |
|  | 7409 | P |  |  | 7416 | P |  |  |  |  |
|  | 7410 | P |  |  | 7427 | P |  |  |  |  |
|  | 7417 | P |  |  | 7264 | L |  |  |  |  |
|  | 7426 | P |  |  | 7270 | P |  |  |  |  |
|  | 7428 | L |  |  | 7279 | P |  |  |  |  |
|  | 7282 | P |  |  | 7293 | P |  |  |  |  |
|  | 7285 | P |  |  | 7296 | P |  |  |  |  |
|  | 7301 | P |  |  | 7311 | P |  |  |  |  |
|  | 7303 | P |  |  | 7312 | P |  |  |  |  |
|  | 7338 | P |  |  | 7328 | P |  |  |  |  |
|  | 7339 | P |  |  | 7332 | P |  |  |  |  |
|  | 7376 | L |  |  | 7344 | P |  |  |  |  |
|  | 7384 | P |  |  | 7345 | P |  |  |  |  |
|  | 7385 | P |  |  | 7382 | L |  |  |  |  |
|  | 7395 | P |  |  | 7388 | P |  |  |  |  |
|  | 7411 | P |  |  | 7419 | P |  |  |  |  |
|  | 7413 | P |  |  | 7060 | P |  |  |  |  |
|  | 7262 | L |  |  | 7123 | P |  |  |  |  |

**HASIL PENILAIAN PRE-TEST DAN POST-TEST KELAS EKSPERIMEN**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **PRE-TEST KELAS EKSPERIMEN** | | | | | | | | | | |
| **Responden** | **NIS** | **L/P** | **1** | **2** | **3** | **4** | **5** | **Nilai/100** | **Kelompok** | **Rata-rata** |
| 3 | 7055 | L | 10 | 20 | 35 | 8 | 4 | 77 | tinggi | 65 |
| 12 | 7132 | P | 18 | 20 | 19 | 8 | 6 | 71 |
| 45 | 7185 | L | 20 | 15 | 22 | 6 | 6 | 69 |
| 5 | 7063 | P | 10 | 20 | 25 | 6 | 6 | 67 |
| 8 | 7093 | P | 10 | 20 | 23 | 8 | 6 | 67 |
| 10 | 7113 | L | 7 | 20 | 28 | 8 | 4 | 67 |
| 15 | 7175 | L | 4 | 15 | 36 | 6 | 6 | 67 |
| 28 | 7107 | P | 15 | 20 | 16 | 6 | 10 | 67 |
| 57 | 7105 | P | 6 | 20 | 23 | 8 | 10 | 67 |
| 9 | 7100 | P | 10 | 20 | 22 | 8 | 6 | 66 |
| 48 | 7198 | P | 15 | 20 | 16 | 6 | 8 | 65 |
| 75 | 7177 | L | 7 | 20 | 23 | 7 | 8 | 65 |
| 17 | 7188 | L | 10 | 20 | 22 | 6 | 6 | 64 |
| 68 | 7066 | P | 7 | 20 | 23 | 8 | 6 | 64 |
| 7 | 7082 | P | 10 | 20 | 19 | 10 | 4 | 63 |
| 19 | 7204 | P | 7 | 20 | 24 | 6 | 6 | 63 |
| 69 | 7072 | P | 10 | 20 | 19 | 8 | 6 | 63 |
| 11 | 7117 | P | 10 | 15 | 19 | 10 | 8 | 62 |
| 13 | 7142 | P | 7 | 15 | 19 | 10 | 10 | 61 |
| 64 | 7247 | P | 10 | 20 | 19 | 8 | 4 | 61 |
| 65 | 7037 | L | 6 | 15 | 26 | 8 | 6 | 61 |
| 71 | 7096 | P | 8 | 20 | 19 | 8 | 6 | 61 |
| 60 | 7196 | P | 10 | 20 | 16 | 8 | 6 | 60 |
| 70 | 7091 | P | 7 | 20 | 19 | 8 | 6 | 60 |
| 4 | 7062 | P | 5 | 20 | 19 | 8 | 6 | 58 |
| 18 | 7199 | P | 5 | 20 | 19 | 8 | 6 | 58 | sedang | 53 |
| 58 | 7144 | P | 6 | 10 | 24 | 8 | 10 | 58 |
| 23 | 7233 | P | 4 | 20 | 22 | 7 | 4 | 57 |
| 29 | 7115 | P | 8 | 20 | 16 | 8 | 5 | 57 |
| 63 | 7214 | L | 10 | 20 | 16 | 8 | 3 | 57 |
| 22 | 7230 | P | 8 | 15 | 19 | 7 | 6 | 55 |
| 56 | 7075 | L | 5 | 20 | 19 | 6 | 5 | 55 |
| 62 | 7213 | P | 8 | 15 | 16 | 8 | 8 | 55 |
| 73 | 7114 | P | 10 | 15 | 19 | 7 | 4 | 55 |
| 34 | 7087 | L | 5 | 15 | 22 | 6 | 6 | 54 |
| 37 | 7119 | P | 15 | 10 | 16 | 8 | 5 | 54 |
| 50 | 7227 | P | 4 | 10 | 26 | 6 | 8 | 54 |
| 20 | 7208 | P | 5 | 20 | 16 | 8 | 4 | 53 |
| 40 | 7146 | L | 5 | 10 | 26 | 6 | 6 | 53 |
| 49 | 7202 | P | 3 | 20 | 16 | 8 | 6 | 53 |
| 21 | 7221 | L | 8 | 15 | 20 | 6 | 3 | 52 |
| 31 | 7057 | L | 10 | 10 | 22 | 6 | 3 | 51 |
| 67 | 7058 | P | 10 | 10 | 20 | 8 | 3 | 51 |
| 74 | 7151 | L | 3 | 15 | 22 | 8 | 3 | 51 |
| 2 | 7051 | L | 6 | 20 | 15 | 5 | 4 | 50 |
| 24 | 7235 | P | 4 | 10 | 26 | 7 | 3 | 50 |
| 61 | 7209 | P | 5 | 15 | 16 | 8 | 6 | 50 |
| 16 | 7179 | L | 10 | 10 | 16 | 10 | 3 | 49 |
| 32 | 7061 | P | 5 | 10 | 16 | 8 | 10 | 49 |
| 43 | 7169 | L | 12 | 10 | 16 | 8 | 3 | 49 |
| 52 | 7088 | P | 7 | 15 | 16 | 6 | 5 | 49 | rendah | 43 |
| 53 | 7137 | P | 7 | 10 | 20 | 6 | 6 | 49 |
| 44 | 7172 | L | 3 | 10 | 26 | 6 | 3 | 48 |
| 66 | 7038 | P | 7 | 15 | 16 | 6 | 4 | 48 |
| 26 | 7249 | P | 7 | 10 | 16 | 8 | 6 | 47 |
| 33 | 7069 | P | 8 | 10 | 20 | 6 | 3 | 47 |
| 38 | 7256 | P | 10 | 10 | 16 | 6 | 5 | 47 |
| 41 | 7148 | L | 5 | 10 | 19 | 6 | 6 | 46 |
| 46 | 7193 | L | 5 | 10 | 19 | 8 | 4 | 46 |
| 55 | 7147 | L | 5 | 10 | 22 | 5 | 4 | 46 |
| 59 | 7173 | L | 5 | 10 | 22 | 5 | 4 | 46 |
| 1 | 7040 | L | 8 | 10 | 19 | 5 | 3 | 45 |
| 14 | 7162 | L | 8 | 10 | 16 | 8 | 3 | 45 |
| 25 | 7244 | L | 8 | 10 | 16 | 8 | 3 | 45 |
| 27 | 7109 | P | 8 | 10 | 16 | 8 | 3 | 45 |
| 36 | 7102 | P | 3 | 15 | 16 | 6 | 3 | 43 |
| 42 | 7157 | L | 5 | 10 | 16 | 6 | 5 | 42 |
| 72 | 7112 | P | 7 | 10 | 16 | 6 | 3 | 42 |
| 51 | 7237 | P | 5 | 10 | 16 | 6 | 4 | 41 |
| 39 | 7140 | P | 3 | 10 | 16 | 6 | 3 | 38 |
| 30 | 7254 | L | 3 | 10 | 14 | 5 | 3 | 35 |
| 6 | 7068 | L | 5 | 3 | 16 | 6 | 3 | 33 |
| 35 | 7098 | P | 5 | 15 | 0 | 8 | 4 | 32 |
| 47 | 7194 | P | 3 | 0 | 22 | 5 | 0 | 30 |
| 54 | 7111 | L | 5 | 10 | 4 | 5 | 4 | 28 |
| Rata-rata | | | 7 | 15 | 19 | 7 | 5 | 53 |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **POST-TEST KELAS EKSPERIMEN** | | | | | | | | | | |
| **Responden** | **NIS** | **L/P** | **1** | **2** | **3** | **4** | **5** | **Nilai/100** | **Kelompok** | **Rata-rata** |
| 9 | 7100 | P | 15 | 20 | 34 | 10 | 5 | **84** | tinggi | 70 |
| 8 | 7093 | P | 15 | 20 | 22 | 10 | 8 | **75** |
| 60 | 7196 | P | 17 | 20 | 22 | 8 | 8 | **75** |
| 65 | 7037 | L | 20 | 15 | 22 | 10 | 7 | **74** |
| 57 | 7105 | P | 10 | 15 | 28 | 10 | 10 | **73** |
| 72 | 7112 | P | 10 | 20 | 26 | 10 | 7 | **73** |
| 11 | 7117 | P | 15 | 20 | 20 | 10 | 7 | **72** |
| 12 | 7132 | P | 5 | 20 | 29 | 10 | 8 | **72** |
| 63 | 7214 | L | 20 | 17 | 19 | 8 | 8 | **72** |
| 48 | 7198 | P | 20 | 4 | 31 | 7 | 9 | **71** |
| 62 | 7213 | P | 16 | 20 | 16 | 10 | 8 | **70** |
| 19 | 7204 | P | 12 | 18 | 25 | 4 | 10 | **69** |
| 28 | 7107 | P | 20 | 10 | 22 | 8 | 8 | **68** |
| 55 | 7147 | L | 20 | 7 | 24 | 10 | 7 | **68** |
| 3 | 7055 | L | 20 | 7 | 25 | 10 | 5 | **67** |
| 7 | 7082 | P | 15 | 5 | 30 | 10 | 7 | **67** |
| 54 | 7111 | L | 20 | 7 | 24 | 8 | 8 | **67** |
| 61 | 7209 | P | 20 | 3 | 26 | 10 | 8 | **67** |
| 69 | 7072 | P | 17 | 6 | 28 | 8 | 8 | **67** |
| 71 | 7096 | P | 17 | 6 | 28 | 8 | 8 | **67** |
| 5 | 7063 | P | 15 | 20 | 16 | 10 | 5 | **66** |
| 70 | 7091 | P | 17 | 6 | 28 | 8 | 7 | **66** |
| 37 | 7119 | P | 19 | 10 | 16 | 10 | 10 | **65** |
| 45 | 7185 | L | 20 | 8 | 22 | 8 | 7 | **65** |
| 52 | 7088 | P | 20 | 10 | 16 | 10 | 9 | **65** |
| 68 | 7066 | P | 17 | 6 | 28 | 7 | 7 | **65** | sedang | 59 |
| 41 | 7148 | L | 20 | 4 | 28 | 5 | 7 | **64** |
| 14 | 7162 | L | 20 | 10 | 20 | 8 | 5 | **63** |
| 4 | 7062 | P | 15 | 5 | 25 | 10 | 7 | **62** |
| 18 | 7199 | P | 5 | 20 | 19 | 10 | 8 | **62** |
| 38 | 7256 | P | 18 | 7 | 20 | 10 | 7 | **62** |
| 22 | 7230 | P | 10 | 15 | 25 | 8 | 3 | **61** |
| 29 | 7115 | P | 10 | 5 | 35 | 6 | 5 | **61** |
| 35 | 7098 | P | 20 | 6 | 20 | 8 | 7 | **61** |
| 51 | 7237 | P | 20 | 6 | 20 | 7 | 8 | **61** |
| 2 | 7051 | L | 10 | 7 | 29 | 8 | 5 | **59** |
| 30 | 7254 | L | 10 | 20 | 16 | 8 | 5 | **59** |
| 32 | 7061 | P | 20 | 5 | 16 | 10 | 8 | **59** |
| 64 | 7247 | P | 10 | 12 | 24 | 8 | 5 | **59** |
| 47 | 7194 | P | 15 | 5 | 20 | 8 | 10 | **58** |
| 66 | 7038 | P | 20 | 10 | 16 | 4 | 8 | **58** |
| 73 | 7114 | P | 20 | 10 | 16 | 5 | 7 | **58** |
| 16 | 7179 | L | 20 | 10 | 16 | 8 | 3 | **57** |
| 17 | 7188 | L | 20 | 10 | 16 | 8 | 3 | **57** |
| 25 | 7244 | L | 20 | 10 | 16 | 8 | 3 | **57** |
| 56 | 7075 | L | 15 | 3 | 22 | 7 | 10 | **57** |
| 67 | 7058 | P | 20 | 5 | 16 | 8 | 7 | **56** |
| 15 | 7175 | L | 20 | 10 | 16 | 5 | 4 | **55** |
| 20 | 7208 | P | 5 | 20 | 19 | 8 | 3 | **55** |
| 27 | 7109 | P | 20 | 7 | 16 | 5 | 6 | **54** |
| 33 | 7069 | P | 18 | 7 | 20 | 4 | 5 | **54** | rendah | 48 |
| 58 | 7144 | P | 10 | 3 | 24 | 7 | 10 | **54** |
| 23 | 7233 | P | 12 | 5 | 22 | 6 | 8 | **53** |
| 46 | 7193 | L | 10 | 10 | 19 | 8 | 6 | **53** |
| 10 | 7113 | L | 12 | 8 | 16 | 10 | 6 | **52** |
| 1 | 7040 | L | 10 | 12 | 16 | 10 | 3 | **51** |
| 21 | 7221 | L | 10 | 10 | 20 | 6 | 5 | **51** |
| 43 | 7169 | L | 10 | 10 | 16 | 8 | 7 | **51** |
| 49 | 7202 | P | 10 | 10 | 16 | 8 | 6 | **50** |
| 59 | 7173 | L | 10 | 7 | 23 | 5 | 5 | **50** |
| 74 | 7151 | L | 4 | 6 | 22 | 10 | 8 | **50** |
| 13 | 7142 | P | `15 | 7 | 29 | 8 | 5 | **49** |
| 24 | 7235 | P | 3 | 5 | 28 | 5 | 7 | **48** |
| 26 | 7249 | P | 10 | 5 | 22 | 5 | 6 | **48** |
| 44 | 7172 | L | 4 | 4 | 30 | 5 | 5 | **48** |
| 50 | 7227 | P | 5 | 5 | 22 | 8 | 8 | **48** |
| 53 | 7137 | P | 7 | 7 | 16 | 10 | 8 | **48** |
| 34 | 7087 | L | 3 | 7 | 23 | 6 | 8 | **47** |
| 39 | 7140 | P | 3 | 4 | 26 | 7 | 7 | **47** |
| 40 | 7146 | L | 15 | 5 | 16 | 7 | 3 | **46** |
| 6 | 7068 | L | 3 | 5 | 19 | 10 | 7 | **44** |
| 42 | 7157 | L | 10 | 5 | 16 | 6 | 7 | **44** |
| 36 | 7102 | P | 3 | 5 | 20 | 8 | 7 | **43** |
| 31 | 7057 | L | 4 | 3 | 24 | 7 | 4 | **42** |
| 75 | 7177 | L | 4 | 8 | 16 | 5 | 5 | **38** |
| Rata-rata | | | **14** | **9** | **22** | **8** | **7** | **59** |  |  |

**HASIL PENILAIAN PRE-TEST DAN POST-TEST KELAS KONTROL**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **PRE-TEST KELAS KONTROL** | | | | | | | | | | |
| **Responden** | **NIS** | **L/P** | **1** | **2** | **3** | **4** | **5** | **Nilai/100** | **Kelompok** | **Rata-rata** |
| 4 | 7277 | L | 15 | 20 | 28 | 5 | 8 | **76** | tinggi | 60 |
| 37 | 7308 | P | 8 | 20 | 32 | 7 | 8 | **75** |
| 24 | 7285 | P | 18 | 20 | 22 | 3 | 10 | **73** |
| 75 | 7205 | P | 10 | 20 | 19 | 8 | 8 | **65** |
| 72 | 7134 | P | 12 | 20 | 19 | 6 | 7 | **64** |
| 8 | 7318 | P | 15 | 18 | 22 | 4 | 4 | **63** |
| 39 | 7379 | L | 15 | 18 | 22 | 4 | 4 | **63** |
| 11 | 7348 | P | 12 | 20 | 22 | 4 | 4 | **62** |
| 23 | 7282 | P | 4 | 10 | 32 | 8 | 8 | **62** |
| 18 | 7409 | P | 15 | 10 | 22 | 7 | 5 | **59** |
| 12 | 7352 | L | 17 | 10 | 18 | 5 | 8 | **58** |
| 15 | 7369 | L | 15 | 10 | 22 | 7 | 4 | **58** |
| 52 | 7408 | L | 17 | 10 | 18 | 5 | 8 | **58** |
| 58 | 7293 | P | 3 | 15 | 26 | 6 | 8 | **58** |
| 73 | 7207 | P | 7 | 10 | 28 | 6 | 7 | **58** |
| 20 | 7417 | P | 4 | 20 | 19 | 8 | 6 | **57** |
| 34 | 7413 | P | 10 | 15 | 22 | 4 | 5 | **56** |
| 46 | 7309 | P | 3 | 10 | 30 | 7 | 5 | **55** |
| 28 | 7339 | P | 5 | 7 | 25 | 7 | 10 | **54** |
| 35 | 7262 | L | 5 | 10 | 28 | 7 | 4 | **54** |
| 7 | 7302 | P | 5 | 10 | 22 | 8 | 8 | **53** |
| 14 | 7367 | L | 6 | 15 | 22 | 5 | 5 | **53** |
| 16 | 7373 | L | 6 | 15 | 22 | 5 | 5 | **53** |
| 61 | 7312 | P | 5 | 10 | 28 | 6 | 4 | **53** |
| 22 | 7428 | L | 10 | 10 | 16 | 7 | 8 | **51** |
| 44 | 7297 | P | 5 | 10 | 20 | 7 | 8 | **50** | sedang | 47 |
| 74 | 7239 | P | 5 | 15 | 19 | 6 | 5 | **50** |
| 40 | 7398 | P | 10 | 10 | 16 | 8 | 5 | **49** |
| 9 | 7320 | P | 10 | 10 | 16 | 5 | 7 | **48** |
| 10 | 7336 | P | 3 | 12 | 16 | 10 | 7 | **48** |
| 41 | 7414 | P | 12 | 3 | 22 | 7 | 4 | **48** |
| 60 | 7311 | P | 4 | 10 | 24 | 5 | 5 | **48** |
| 71 | 7131 | P | 10 | 10 | 16 | 5 | 7 | **48** |
| 3 | 7276 | L | 12 | 10 | 16 | 4 | 5 | **47** |
| 26 | 7303 | P | 12 | 10 | 16 | 5 | 4 | **47** |
| 42 | 7421 | L | 5 | 3 | 29 | 5 | 5 | **47** |
| 45 | 7304 | L | 5 | 10 | 16 | 8 | 8 | **47** |
| 51 | 7403 | P | 5 | 10 | 20 | 4 | 8 | **47** |
| 69 | 7060 | P | 10 | 10 | 16 | 6 | 5 | **47** |
| 70 | 7123 | P | 10 | 10 | 16 | 6 | 5 | **47** |
| 2 | 7258 | P | 5 | 12 | 16 | 3 | 10 | **46** |
| 13 | 7362 | L | 3 | 10 | 25 | 5 | 3 | **46** |
| 36 | 7305 | L | 5 | 10 | 18 | 5 | 8 | **46** |
| 19 | 7410 | P | 6 | 10 | 16 | 6 | 7 | **45** |
| 30 | 7384 | P | 5 | 7 | 23 | 6 | 4 | **45** |
| 47 | 7310 | P | 4 | 10 | 20 | 7 | 4 | **45** |
| 32 | 7395 | P | 3 | 10 | 16 | 7 | 8 | **44** |
| 63 | 7332 | P | 8 | 8 | 19 | 5 | 4 | **44** |
| 5 | 7283 | P | 3 | 12 | 16 | 7 | 5 | **43** |
| 21 | 7426 | P | 4 | 10 | 19 | 6 | 4 | **43** |
| 29 | 7376 | L | 3 | 10 | 18 | 7 | 3 | **41** | rendah | 32 |
| 43 | 7269 | P | 3 | 10 | 14 | 5 | 7 | **39** |
| 64 | 7344 | P | 5 | 8 | 16 | 6 | 4 | **39** |
| 25 | 7301 | P | 3 | 5 | 20 | 5 | 5 | **38** |
| 6 | 7284 | P | 5 | 10 | 16 | 3 | 3 | **37** |
| 33 | 7411 | P | 5 | 10 | 12 | 6 | 4 | **37** |
| 38 | 7323 | P | 3 | 10 | 16 | 3 | 5 | **37** |
| 48 | 7324 | P | 5 | 10 | 12 | 6 | 4 | **37** |
| 55 | 7264 | L | 8 | 5 | 18 | 3 | 3 | **37** |
| 17 | 7389 | P | 3 | 7 | 19 | 3 | 4 | **36** |
| 27 | 7338 | P | 5 | 7 | 16 | 4 | 4 | **36** |
| 54 | 7427 | P | 3 | 7 | 16 | 5 | 5 | **36** |
| 65 | 7345 | P | 5 | 10 | 15 | 3 | 3 | **36** |
| 1 | 7257 | L | 5 | 7 | 16 | 3 | 4 | **35** |
| 31 | 7385 | P | 3 | 5 | 16 | 4 | 6 | **34** |
| 53 | 7416 | P | 3 | 8 | 16 | 3 | 3 | **33** |
| 56 | 7270 | P | 5 | 10 | 9 | 6 | 3 | **33** |
| 49 | 7337 | L | 5 | 10 | 9 | 3 | 5 | **32** |
| 50 | 7342 | P | 5 | 10 | 0 | 10 | 6 | **31** |
| 62 | 7328 | P | 10 | 10 | 0 | 3 | 3 | **26** |
| 66 | 7382 | L | 7 | 10 | 0 | 3 | 3 | **23** |
| 57 | 7279 | P | 3 | 8 | 4 | 3 | 3 | **21** |
| 67 | 7388 | P | 3 | 10 | 0 | 3 | 3 | **19** |
| 68 | 7419 | P | 3 | 10 | 0 | 3 | 3 | **19** |
| 59 | 7296 | P | 5 | 5 | 0 | 3 | 3 | **16** |
| Rata-rata | | | 7 | 11 | 18 | 5 | 5 | **46** |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **POST-TEST KELAS KONTROL** | | | | | | | | | | |
| **Responden** | **NIS** | **L/P** | **1** | **2** | **3** | **4** | **5** | **Nilai/100** | **Kelompok** | **Rata-rata** |
| 4 | 7277 | L | 20 | 15 | 22 | 7 | 8 | **72** | tinggi | 57 |
| 37 | 7308 | P | 20 | 20 | 16 | 7 | 8 | **71** |
| 72 | 7134 | P | 20 | 10 | 22 | 7 | 7 | **66** |
| 16 | 7373 | L | 15 | 10 | 27 | 5 | 7 | **64** |
| 71 | 7131 | P | 10 | 20 | 16 | 5 | 8 | **59** |
| 12 | 7352 | L | 15 | 10 | 17 | 10 | 6 | **58** |
| 14 | 7367 | L | 10 | 10 | 28 | 5 | 5 | **58** |
| 35 | 7262 | L | 5 | 10 | 32 | 4 | 7 | **58** |
| 67 | 7388 | P | 7 | 20 | 22 | 5 | 4 | **58** |
| 40 | 7398 | P | 10 | 10 | 28 | 4 | 5 | **57** |
| 63 | 7332 | P | 10 | 10 | 22 | 8 | 7 | **57** |
| 64 | 7344 | P | 7 | 20 | 20 | 6 | 4 | **57** |
| 7 | 7302 | P | 10 | 10 | 16 | 10 | 8 | **54** |
| 23 | 7282 | P | 10 | 3 | 28 | 7 | 6 | **54** |
| 46 | 7309 | P | 10 | 7 | 25 | 6 | 5 | **53** |
| 52 | 7408 | L | 6 | 8 | 26 | 5 | 8 | **53** |
| 66 | 7382 | L | 3 | 4 | 26 | 10 | 10 | **53** |
| 3 | 7276 | L | 7 | 20 | 16 | 4 | 5 | **52** |
| 69 | 7060 | P | 20 | 4 | 16 | 6 | 6 | **52** |
| 73 | 7207 | P | 10 | 7 | 22 | 6 | 7 | **52** |
| 10 | 7336 | P | 8 | 5 | 27 | 7 | 4 | **51** |
| 28 | 7339 | P | 10 | 5 | 19 | 7 | 10 | **51** |
| 53 | 7416 | P | 3 | 4 | 32 | 4 | 8 | **51** |
| 70 | 7123 | P | 20 | 4 | 16 | 6 | 5 | **51** |
| 75 | 7205 | P | 12 | 5 | 16 | 10 | 8 | **51** |
| 27 | 7338 | P | 10 | 5 | 28 | 4 | 3 | **50** | sedang | 45 |
| 74 | 7239 | P | 7 | 10 | 22 | 6 | 5 | **50** |
| 1 | 7257 | L | 10 | 8 | 22 | 4 | 5 | **49** |
| 22 | 7428 | L | 8 | 10 | 20 | 5 | 6 | **49** |
| 8 | 7318 | P | 3 | 7 | 25 | 6 | 7 | **48** |
| 21 | 7426 | P | 6 | 8 | 26 | 4 | 4 | **48** |
| 42 | 7421 | L | 10 | 5 | 23 | 5 | 5 | **48** |
| 19 | 7410 | P | 10 | 3 | 19 | 6 | 8 | **46** |
| 45 | 7304 | L | 2 | 3 | 28 | 7 | 6 | **46** |
| 68 | 7419 | P | 5 | 10 | 20 | 6 | 5 | **46** |
| 34 | 7413 | P | 10 | 5 | 19 | 6 | 5 | **45** |
| 48 | 7324 | P | 6 | 12 | 16 | 7 | 4 | **45** |
| 60 | 7311 | P | 5 | 8 | 22 | 5 | 5 | **45** |
| 20 | 7417 | P | 10 | 3 | 22 | 4 | 5 | **44** |
| 29 | 7376 | L | 10 | 5 | 17 | 5 | 6 | **43** |
| 32 | 7395 | P | 3 | 7 | 20 | 8 | 5 | **43** |
| 62 | 7328 | P | 4 | 4 | 19 | 6 | 10 | **43** |
| 33 | 7411 | P | 3 | 5 | 22 | 4 | 8 | **42** |
| 44 | 7297 | P | 3 | 5 | 22 | 4 | 8 | **42** |
| 47 | 7310 | P | 3 | 5 | 22 | 4 | 8 | **42** |
| 51 | 7403 | P | 3 | 5 | 22 | 4 | 8 | **42** |
| 65 | 7345 | P | 3 | 5 | 22 | 4 | 8 | **42** |
| 36 | 7305 | L | 10 | 10 | 21 | 0 | 0 | **41** |
| 41 | 7414 | P | 7 | 7 | 16 | 3 | 8 | **41** |
| 55 | 7264 | L | 3 | 3 | 26 | 5 | 4 | **41** |
| 57 | 7279 | P | 5 | 3 | 23 | 4 | 6 | **41** | rendah | 35 |
| 59 | 7296 | P | 4 | 5 | 24 | 3 | 5 | **41** |
| 61 | 7312 | P | 6 | 9 | 16 | 6 | 4 | **41** |
| 58 | 7293 | P | 10 | 4 | 16 | 6 | 4 | **40** |
| 30 | 7384 | P | 3 | 5 | 22 | 4 | 5 | **39** |
| 54 | 7427 | P | 3 | 5 | 22 | 4 | 5 | **39** |
| 5 | 7283 | P | 0 | 3 | 20 | 6 | 7 | **36** |
| 13 | 7362 | L | 4 | 7 | 16 | 5 | 4 | **36** |
| 18 | 7409 | P | 4 | 3 | 17 | 7 | 5 | **36** |
| 43 | 7269 | P | 5 | 5 | 16 | 5 | 5 | **36** |
| 56 | 7270 | P | 5 | 5 | 16 | 6 | 4 | **36** |
| 2 | 7258 | P | 3 | 5 | 18 | 5 | 4 | **35** |
| 11 | 7348 | P | 5 | 5 | 16 | 5 | 4 | **35** |
| 17 | 7389 | P | 3 | 3 | 23 | 3 | 3 | **35** |
| 6 | 7284 | P | 7 | 3 | 16 | 3 | 5 | **34** |
| 9 | 7320 | P | 3 | 3 | 22 | 5 | 0 | **33** |
| 24 | 7285 | P | 4 | 5 | 16 | 4 | 4 | **33** |
| 49 | 7337 | L | 3 | 3 | 16 | 3 | 8 | **33** |
| 26 | 7303 | P | 5 | 3 | 16 | 4 | 4 | **32** |
| 39 | 7379 | L | 3 | 3 | 16 | 3 | 7 | **32** |
| 50 | 7342 | P | 3 | 5 | 13 | 4 | 7 | **32** |
| 31 | 7385 | P | 3 | 3 | 16 | 4 | 5 | **31** |
| 38 | 7323 | P | 3 | 7 | 10 | 3 | 8 | **31** |
| 15 | 7369 | L | 2 | 4 | 12 | 4 | 8 | **30** |
| 25 | 7301 | P | 1 | 2 | 12 | 4 | 4 | **23** |
| Rata-rata | | | **7** | **7** | **20** | **5** | **6** | **45** |  |  |