**Lampiran 1.14. Skor PreTest dan PosTest Keterampilan Berpikir Kritis**

**1. Pre-Test Keterampilan Berpikir Kritis Kelas Eksperimen 1**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Subjek** | **Soal No-(Skor)** | | | | | | | | | | | | | | | **Jumlah** | **Nilai** |
| **Klarifikasi Masalah** | **Mengumpulkan Informasi** | **Membuat Inferensi** | **Membuat Inferensi** | **Klarifikasi Masalah** | **Membuat Keputusan Terbaik** | **Membuat Inferensi** | **Klarifikasi Lanjut** | **Klarifikasi Masalah** | **Membuat Keputusan Terbaik** | **Klarifikasi Lanjut** | **Klarifikasi Lanjut** | **Klarifikasi Lanjut** | **Mengumpulkan Informasi** | **Klarifikasi Lanjut** |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| E 1.1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 10 | 67 |
| E 1.2 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 6 | 40 |
| E 1.3 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 8 | 53 |
| E 1.4 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 4 | 27 |
| E 1.5 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 7 | 47 |
| E 1.6 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 10 | 67 |
| E 1.7 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 8 | 53 |
| E 1.8 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 20 |
| E 1.9 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 4 | 27 |
| E 1.10 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 8 | 53 |
| E 1.11 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 6 | 40 |
| E 1.12 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 20 |
| E 1.13 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 7 | 47 |
| E 1.14 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 7 | 47 |
| E 1.15 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 7 | 47 |
| E 1.16 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 4 | 27 |
| E 1.17 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 6 | 40 |
| E 1.18 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 9 | 60 |
| E 1.19 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 9 | 60 |
| E 1.20 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 6 | 40 |
| E 1.21 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 8 | 53 |
| E 1.22 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 10 | 67 |
| E 1.23 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 6 | 40 |
| E 1.24 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 9 | 60 |
| E 1.25 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 10 | 67 |
| E 1.26 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 6 | 40 |
| E 1.27 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 7 | 47 |
| E 1.28 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 8 | 53 |
| E 1.29 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 5 | 33 |
| E 1.30 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 13 |
| E 1.31 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 40 |
| E 1.32 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 9 | 60 |
| E 1.33 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 8 | 53 |
| E 1.34 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 5 | 33 |
| E 1.35 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 6 | 40 |
| E 1.36 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 8 | 53 |
| E 1.37 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 5 | 33 |
| E 1.38 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 10 | 67 |
| E 1.39 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 7 | 47 |
| E 1.40 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 5 | 33 |
| E 1.41 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 7 | 47 |
| E 1.42 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 13 |
| E 1.43 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 7 | 47 |
| E 1.44 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 5 | 33 |
| E 1.45 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 10 | 67 |
| E 1.46 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 5 | 33 |
| E 1.47 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 9 | 60 |
| E 1.48 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 7 | 47 |
| E 1.49 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 5 | 33 |
| E 1.50 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 5 | 33 |
| E 1.51 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 7 | 47 |
| **Jumlah** | 39 | 32 | 25 | 35 | 25 | 18 | 11 | 21 | 28 | 11 | 6 | 36 | 32 | 10 | 12 | 341 | 2273 |
| **Skor Maksimum** | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 10,0 | 66,7 |
| **Skor Minimum** | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 2,0 | 13,3 |
| **Skor Rata-Rata** | 0,8 | 0,6 | 0,5 | 0,7 | 0,5 | 0,4 | 0,2 | 0,4 | 0,5 | 0,2 | 0,1 | 0,7 | 0,6 | 0,2 | 0,2 | 6,7 | 44,7 |
| **% Skor Rata-Rata** | 80 | 60 | 50 | 70 | 50 | 40 | 20 | 40 | 50 | 20 | 10 | 70 | 60 | 20 | 20 | 44,7 | 44,7 |
| **Standar Deviasi** | 0,4 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,4 | 0,5 | 0,5 | 0,4 | 0,3 | 0,5 | 0,5 | 0,4 | 0,4 | 2,1 | 14,1 |

Indikator Keterampilan Berpikir Kritis (Framework Norris dan Ennis, 1989)

1. Klarifikasi Masalah

2. Mengumpulkan Informasi

3. Membuat Inferensi

4. Klarifikasi Lanjut

5. Keputusan Terbaik

**2. Post-Test Keterampilan Berpikir Kritis Kelas Eksperimen 1**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Subjek** | **Soal No-(Skor)** | | | | | | | | | | | | | | | **Jumlah** | **Nilai** |
| **Klarifikasi Masalah** | **Mengumpulkan Informasi** | **Membuat Inferensi** | **Membuat Inferensi** | **Klarifikasi Masalah** | **Membuat Keputusan Terbaik** | **Membuat Inferensi** | **Klarifikasi Lanjut** | **Klarifikasi Masalah** | **Membuat Keputusan Terbaik** | **Klarifikasi Lanjut** | **Klarifikasi Lanjut** | **Klarifikasi Lanjut** | **Membaut Inferensi** | **Klarifikasi Lanjut** |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
| E 1.1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 14 | 93 |
| E 1.2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 13 | 87 |
| E 1.3 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 12 | 80 |
| E 1.4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 14 | 93 |
| E 1.5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 15 | 100 |
| E 1.6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 13 | 87 |
| E 1.7 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 11 | 73 |
| E 1.8 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 11 | 73 |
| E 1.9 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 12 | 80 |
| E 1.10 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 12 | 80 |
| E 1.11 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 10 | 67 |
| E 1.12 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 11 | 73 |
| E 1.13 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 13 | 87 |
| E 1.14 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 13 | 87 |
| E 1.15 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 8 | 53 |
| E 1.16 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 11 | 73 |
| E 1.17 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 12 | 80 |
| E 1.18 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 14 | 93 |
| E 1.19 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 13 | 87 |
| E 1.20 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 12 | 80 |
| E 1.21 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 13 | 87 |
| E 1.22 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 14 | 93 |
| E 1.23 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 12 | 80 |
| E 1.24 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 14 | 93 |
| E 1.25 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 13 | 87 |
| E 1.26 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 12 | 80 |
| E 1.27 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 14 | 93 |
| E 1.28 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 11 | 73 |
| E 1.29 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 14 | 93 |
| E 1.30 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 13 | 87 |
| E 1.31 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 14 | 93 |
| E 1.32 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 11 | 73 |
| E 1.33 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 11 | 73 |
| E 1.34 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 12 | 80 |
| E 1.35 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 10 | 67 |
| E 1.36 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 15 | 100 |
| E 1.37 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 15 | 100 |
| E 1.38 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 13 | 87 |
| E 1.39 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 12 | 80 |
| E 1.40 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 15 | 100 |
| E 1.41 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 12 | 80 |
| E 1.42 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 10 | 67 |
| E 1.43 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 15 | 100 |
| E 1.44 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 8 | 53 |
| E 1.45 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 10 | 67 |
| E 1.46 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 10 | 67 |
| E 1.47 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 11 | 73 |
| E 1.48 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 12 | 80 |
| E 1.49 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 11 | 73 |
| E 1.50 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 12 | 80 |
| E 1.51 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 10 | 67 |
| **Jumlah** | 49 | 49 | 43 | 44 | 50 | 41 | 36 | 33 | 42 | 41 | 40 | 39 | 44 | 41 | 31 | 623 | 4153 |
| **Skor Maksimum** | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 15,0 | 100,0 |
| **Skor Minimum** | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 8,0 | 53,3 |
| **Skor Rata-Rata** | 1,0 | 1,0 | 0,8 | 0,9 | 1,0 | 0,8 | 0,7 | 0,6 | 0,8 | 0,8 | 0,8 | 0,8 | 0,9 | 0,8 | 0,6 | 12,2 | 81,3 |
| **% Skor Rata-Rata** | 100 | 100 | 80 | 90 | 100 | 80 | 70 | 60 | 80 | 80 | 80 | 80 | 90 | 80 | 60 | 81,3 | 81,3 |
| **Standar Deviasi** | 0,2 | 0,2 | 0,4 | 0,3 | 0,1 | 0,4 | 0,5 | 0,5 | 0,4 | 0,4 | 0,4 | 0,4 | 0,3 | 0,4 | 0,5 | 1,7 | 11,5 |

Indikator Keterampilan Berpikir Kritis (Framework Norris dan Ennis, 1989)

1. Klarifikasi Masalah

2. Mengumpulkan Informasi

3. Membuat Inferensi

4. Klarifikasi Lanjut

5. Keputusan Terbaik

**3. N-Gain Indikator Keterampilan Berpikir Kritis Kelas Eksperimen 1**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Subjek** | **Indikator 1** | | | | **Indikator 2** | | | | **Indikator 3** | | | | **Indikator 4** | | | | **Indikator 5** | | | |
| **No.1, No.5, No.9** | | | | **No.2, No.14** | | | | **No.3, No.4, No.7** | | | | **No.8, No.11, No.12, No.13, No.15** | | | | **No.6, No.10** | | | |
| **PreTest** | **PosTest** | **Gain** | **N-Gain** | **PreTest** | **PosTest** | **Gain** | **N-Gain** | **PreTest** | **PosTest** | **Gain** | **N-Gain** | **PreTest** | **PosTest** | **Gain** | **N-Gain** | **PreTest** | **PosTest** | **Gain** | **N-Gain** |
| E 1.1 | 2 | 3 | **1** | **1,00** | 1 | 2 | **1** | **1,00** | 2 | 3 | **1** | **1,00** | 4 | 4 | **0** | **0,00** | 1 | 2 | **1** | **1,00** |
| E 1.2 | 2 | 2 | **0** | **0,00** | 1 | 1 | **0** | **0,00** | 1 | 3 | **2** | **1,00** | 1 | 5 | **4** | **1,00** | 1 | 2 | **1** | **1,00** |
| E 1.3 | 2 | 3 | **1** | **1,00** | 1 | 2 | **1** | **1,00** | 2 | 2 | **0** | **0,00** | 2 | 3 | **1** | **0,33** | 1 | 2 | **1** | **1,00** |
| E 1.4 | 1 | 3 | **2** | **1,00** | 1 | 2 | **1** | **1,00** | 1 | 3 | **2** | **1,00** | 1 | 4 | **3** | **0,75** | 0 | 2 | **2** | **1,00** |
| E 1.5 | 2 | 3 | **1** | **1,00** | 1 | 2 | **1** | **1,00** | 2 | 3 | **1** | **1,00** | 2 | 5 | **3** | **1,00** | 0 | 2 | **2** | **1,00** |
| E 1.6 | 2 | 3 | **1** | **1,00** | 1 | 2 | **1** | **1,00** | 2 | 3 | **1** | **1,00** | 4 | 3 | **-1** | **-1,00** | 1 | 2 | **1** | **1,00** |
| E 1.7 | 2 | 2 | **0** | **0,00** | 1 | 2 | **1** | **1,00** | 2 | 2 | **0** | **0,00** | 3 | 3 | **0** | **0,00** | 0 | 2 | **2** | **1,00** |
| E 1.8 | 2 | 3 | **1** | **1,00** | 0 | 2 | **2** | **1,00** | 1 | 2 | **1** | **0,50** | 0 | 3 | **3** | **0,60** | 0 | 1 | **1** | **0,50** |
| E 1.9 | 2 | 3 | **1** | **1,00** | 0 | 1 | **1** | **0,50** | 1 | 2 | **1** | **0,50** | 1 | 4 | **3** | **0,75** | 0 | 2 | **2** | **1,00** |
| E 1.10 | 2 | 2 | **0** | **0,00** | 1 | 2 | **1** | **1,00** | 1 | 3 | **2** | **1,00** | 3 | 4 | **1** | **0,50** | 1 | 1 | **0** | **0,00** |
| E 1.11 | 2 | 2 | **0** | **0,00** | 1 | 2 | **1** | **1,00** | 1 | 1 | **0** | **0,00** | 2 | 4 | **2** | **0,67** | 0 | 1 | **1** | **0,50** |
| E 1.12 | 2 | 3 | **1** | **1,00** | 0 | 2 | **2** | **1,00** | 0 | 1 | **1** | **0,33** | 0 | 3 | **3** | **0,60** | 1 | 2 | **1** | **1,00** |
| E 1.13 | 2 | 3 | **1** | **1,00** | 1 | 2 | **1** | **1,00** | 2 | 2 | **0** | **0,00** | 2 | 4 | **2** | **0,67** | 0 | 2 | **2** | **1,00** |
| E 1.14 | 1 | 2 | **1** | **0,50** | 1 | 2 | **1** | **1,00** | 1 | 3 | **2** | **1,00** | 3 | 4 | **1** | **0,50** | 1 | 2 | **1** | **1,00** |
| E 1.15 | 2 | 2 | **0** | **0,00** | 1 | 1 | **0** | **0,00** | 1 | 1 | **0** | **0,00** | 2 | 3 | **1** | **0,33** | 1 | 1 | **0** | **0,00** |
| E 1.16 | 1 | 3 | **2** | **1,00** | 0 | 1 | **1** | **0,50** | 1 | 3 | **2** | **1,00** | 1 | 2 | **1** | **0,25** | 1 | 2 | **1** | **1,00** |
| E 1.17 | 2 | 3 | **1** | **1,00** | 1 | 2 | **1** | **1,00** | 1 | 2 | **1** | **0,50** | 2 | 3 | **1** | **0,33** | 0 | 2 | **2** | **1,00** |
| E 1.18 | 2 | 3 | **1** | **1,00** | 1 | 2 | **1** | **1,00** | 2 | 3 | **1** | **1,00** | 3 | 4 | **1** | **0,50** | 1 | 2 | **1** | **1,00** |
| E 1.19 | 2 | 3 | **1** | **1,00** | 1 | 1 | **0** | **0,00** | 2 | 3 | **1** | **1,00** | 3 | 5 | **2** | **1,00** | 1 | 1 | **0** | **0,00** |
| E 1.20 | 1 | 3 | **2** | **1,00** | 1 | 2 | **1** | **1,00** | 2 | 2 | **0** | **0,00** | 2 | 3 | **1** | **0,33** | 0 | 2 | **2** | **1,00** |
| E 1.21 | 2 | 3 | **1** | **1,00** | 1 | 2 | **1** | **1,00** | 1 | 3 | **2** | **1,00** | 3 | 3 | **0** | **0,00** | 1 | 2 | **1** | **1,00** |
| E 1.22 | 2 | 3 | **1** | **1,00** | 1 | 2 | **1** | **1,00** | 2 | 3 | **1** | **1,00** | 4 | 4 | **0** | **0,00** | 1 | 2 | **1** | **1,00** |
| E 1.23 | 2 | 3 | **1** | **1,00** | 1 | 2 | **1** | **1,00** | 1 | 2 | **1** | **0,50** | 2 | 3 | **1** | **0,33** | 0 | 2 | **2** | **1,00** |
| E 1.24 | 2 | 3 | **1** | **1,00** | 1 | 2 | **1** | **1,00** | 2 | 3 | **1** | **1,00** | 3 | 4 | **1** | **0,50** | 1 | 2 | **1** | **1,00** |
| E 1.25 | 2 | 3 | **1** | **1,00** | 1 | 2 | **1** | **1,00** | 2 | 2 | **0** | **0,00** | 4 | 5 | **1** | **1,00** | 1 | 1 | **0** | **0,00** |
| E 1.26 | 2 | 3 | **1** | **1,00** | 0 | 2 | **2** | **1,00** | 2 | 2 | **0** | **0,00** | 2 | 4 | **2** | **0,67** | 0 | 1 | **1** | **0,50** |
| E 1.27 | 2 | 3 | **1** | **1,00** | 1 | 2 | **1** | **1,00** | 1 | 3 | **2** | **1,00** | 2 | 4 | **2** | **0,67** | 1 | 2 | **1** | **1,00** |
| E 1.28 | 2 | 3 | **1** | **1,00** | 1 | 1 | **0** | **0,00** | 2 | 2 | **0** | **0,00** | 2 | 3 | **1** | **0,33** | 1 | 2 | **1** | **1,00** |
| E 1.29 | 1 | 3 | **2** | **1,00** | 1 | 2 | **1** | **1,00** | 1 | 3 | **2** | **1,00** | 2 | 5 | **3** | **1,00** | 0 | 1 | **1** | **0,50** |
| E 1.30 | 1 | 3 | **2** | **1,00** | 0 | 1 | **1** | **0,50** | 0 | 3 | **3** | **1,00** | 0 | 5 | **5** | **1,00** | 1 | 1 | **0** | **0,00** |
| E 1.31 | 2 | 2 | **0** | **0,00** | 1 | 2 | **1** | **1,00** | 1 | 3 | **2** | **1,00** | 1 | 5 | **4** | **1,00** | 1 | 2 | **1** | **1,00** |
| E 1.32 | 2 | 3 | **1** | **1,00** | 1 | 1 | **0** | **0,00** | 2 | 2 | **0** | **0,00** | 3 | 3 | **0** | **0,00** | 1 | 2 | **1** | **1,00** |
| E 1.33 | 2 | 3 | **1** | **1,00** | 1 | 2 | **1** | **1,00** | 2 | 2 | **0** | **0,00** | 2 | 3 | **1** | **0,33** | 1 | 1 | **0** | **0,00** |
| E 1.34 | 2 | 3 | **1** | **1,00** | 1 | 2 | **1** | **1,00** | 0 | 2 | **2** | **0,67** | 2 | 3 | **1** | **0,33** | 0 | 2 | **2** | **1,00** |
| E 1.35 | 2 | 2 | **0** | **0,00** | 1 | 1 | **0** | **0,00** | 1 | 2 | **1** | **0,50** | 1 | 3 | **2** | **0,50** | 1 | 2 | **1** | **1,00** |
| E 1.36 | 2 | 3 | **1** | **1,00** | 1 | 2 | **1** | **1,00** | 1 | 3 | **2** | **1,00** | 3 | 5 | **2** | **1,00** | 1 | 2 | **1** | **1,00** |
| E 1.37 | 2 | 3 | **1** | **1,00** | 1 | 2 | **1** | **1,00** | 1 | 3 | **2** | **1,00** | 1 | 5 | **4** | **1,00** | 0 | 2 | **2** | **1,00** |
| E 1.38 | 2 | 3 | **1** | **1,00** | 1 | 2 | **1** | **1,00** | 2 | 2 | **0** | **0,00** | 4 | 4 | **0** | **0,00** | 1 | 2 | **1** | **1,00** |
| E 1.39 | 2 | 3 | **1** | **1,00** | 1 | 1 | **0** | **0,00** | 2 | 3 | **1** | **1,00** | 2 | 3 | **1** | **0,33** | 0 | 2 | **2** | **1,00** |
| E 1.40 | 1 | 3 | **2** | **1,00** | 1 | 2 | **1** | **1,00** | 1 | 3 | **2** | **1,00** | 2 | 5 | **3** | **1,00** | 0 | 2 | **2** | **1,00** |
| E 1.41 | 2 | 3 | **1** | **1,00** | 1 | 1 | **0** | **0,00** | 2 | 3 | **1** | **1,00** | 2 | 3 | **1** | **0,33** | 0 | 2 | **2** | **1,00** |
| E 1.42 | 0 | 2 | **2** | **0,67** | 0 | 2 | **2** | **1,00** | 1 | 3 | **2** | **1,00** | 1 | 3 | **2** | **0,50** | 0 | 0 | **0** | **0,00** |
| E 1.43 | 2 | 3 | **1** | **1,00** | 1 | 2 | **1** | **1,00** | 2 | 3 | **1** | **1,00** | 2 | 5 | **3** | **1,00** | 0 | 2 | **2** | **1,00** |
| E 1.44 | 2 | 2 | **0** | **0,00** | 0 | 1 | **1** | **0,50** | 1 | 2 | **1** | **0,50** | 2 | 3 | **1** | **0,33** | 0 | 0 | **0** | **0,00** |
| E 1.45 | 2 | 2 | **0** | **0,00** | 1 | 2 | **1** | **1,00** | 2 | 2 | **0** | **0,00** | 4 | 2 | **-2** | **-2,00** | 1 | 2 | **1** | **1,00** |
| E 1.46 | 2 | 3 | **1** | **1,00** | 1 | 2 | **1** | **1,00** | 2 | 3 | **1** | **1,00** | 0 | 2 | **2** | **0,40** | 0 | 0 | **0** | **0,00** |
| E 1.47 | 2 | 2 | **0** | **0,00** | 1 | 2 | **1** | **1,00** | 2 | 2 | **0** | **0,00** | 3 | 3 | **0** | **0,00** | 1 | 2 | **1** | **1,00** |
| E 1.48 | 1 | 3 | **2** | **1,00** | 1 | 2 | **1** | **1,00** | 1 | 1 | **0** | **0,00** | 3 | 4 | **1** | **0,50** | 1 | 2 | **1** | **1,00** |
| E 1.49 | 2 | 3 | **1** | **1,00** | 0 | 2 | **2** | **1,00** | 1 | 2 | **1** | **0,50** | 2 | 3 | **1** | **0,33** | 0 | 1 | **1** | **0,50** |
| E 1.50 | 2 | 3 | **1** | **1,00** | 1 | 2 | **1** | **1,00** | 0 | 2 | **2** | **0,67** | 1 | 4 | **3** | **0,75** | 1 | 1 | **0** | **0,00** |
| E 1.51 | 2 | 3 | **1** | **1,00** | 1 | 2 | **1** | **1,00** | 2 | 2 | **0** | **0,00** | 1 | 3 | **2** | **0,50** | 1 | 0 | **-1** | **-1,00** |
| **JUMLAH** | **92** | **141** | **49** | **40,17** | **42** | **90** | **48** | **41,00** | **71** | **123** | **52** | **30,17** | **107** | **187** | **80** | **22,77** | **29** | **82** | **53** | **36,50** |
| **SKOR MAKSIMUM** | **2** | **3** | **2** | **1,00** | **1** | **2** | **2** | **1** | **2** | **3** | **3** | **1** | **4** | **5** | **5** | **1** | **1** | **2** | **2** | **1** |
| **SKOR MINIMUM** | **0** | **2** | **0** | **0,00** | **0** | **1** | **0** | **0** | **0** | **1** | **0** | **0,00** | **0** | **2** | **-2** | **-2** | **0** | **0** | **-1** | **-1** |
| **SKOR RATA-RATA** | **1,80** | **2,76** | **0,96** | **0,79** | **0,82** | **1,76** | **0,94** | **0,80** | **1,39** | **2,41** | **1,02** | **0,59** | **2,10** | **3,67** | **1,57** | **0,45** | **0,57** | **1,61** | **1,04** | **0,72** |
| **% SKOR RATA-RATA** | **60** | **92** |  |  | **41** | **88** |  |  | **46,3** | **80,3** |  |  | **42** | **73,4** |  |  | **28,5** | **80,5** |  |  |
| **SIMPANGAN BAKU** | **0,45** | **0,43** | **0,60** | **0,40** | **0,39** | **0,43** | **0,51** | **0,38** | **0,63** | **0,64** | **0,84** | **0,45** | **1,10** | **0,89** | **1,36** | **0,52** | **0,50** | **0,63** | **0,75** | **0,47** |

Indikator Keterampilan Berpikir Kritis (Framework Norris dan Ennis, 1989)

1. Klarifikasi Masalah

2. Mengumpulkan Informasi

3. Membuat Inferensi

4. Klarifikasi Lanjut

5. Keputusan Terbaik

**4. N-Gain Nilai Keterampilan Berpikir Kritis Kelas Eksperimen 1**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Subjek** | **PreTest** | **PosTest** | **Gain** | **N-Gain** |
|
|
| E 1.1 | 67 | 93 | 27 | 0,80 |
| E 1.2 | 40 | 87 | 47 | 0,78 |
| E 1.3 | 53 | 80 | 27 | 0,57 |
| E 1.4 | 27 | 93 | 67 | 0,91 |
| E 1.5 | 47 | 100 | 53 | 1,00 |
| E 1.6 | 67 | 87 | 20 | 0,60 |
| E 1.7 | 53 | 73 | 20 | 0,43 |
| E 1.8 | 20 | 73 | 53 | 0,67 |
| E 1.9 | 27 | 80 | 53 | 0,73 |
| E 1.10 | 53 | 80 | 27 | 0,57 |
| E 1.11 | 40 | 67 | 27 | 0,44 |
| E 1.12 | 20 | 73 | 53 | 0,67 |
| E 1.13 | 47 | 87 | 40 | 0,75 |
| E 1.14 | 47 | 87 | 40 | 0,75 |
| E 1.15 | 47 | 53 | 7 | 0,13 |
| E 1.16 | 27 | 73 | 47 | 0,64 |
| E 1.17 | 40 | 80 | 40 | 0,67 |
| E 1.18 | 60 | 93 | 33 | 0,83 |
| E 1.19 | 60 | 87 | 27 | 0,67 |
| E 1.20 | 40 | 80 | 40 | 0,67 |
| E 1.21 | 53 | 87 | 33 | 0,71 |
| E 1.22 | 67 | 93 | 27 | 0,80 |
| E 1.23 | 40 | 80 | 40 | 0,67 |
| E 1.24 | 60 | 93 | 33 | 0,83 |
| E 1.25 | 67 | 87 | 20 | 0,60 |
| E 1.26 | 40 | 80 | 40 | 0,67 |
| E 1.27 | 47 | 93 | 47 | 0,88 |
| E 1.28 | 53 | 73 | 20 | 0,43 |
| E 1.29 | 33 | 93 | 60 | 0,90 |
| E 1.30 | 13 | 87 | 73 | 0,85 |
| E 1.31 | 40 | 93 | 53 | 0,89 |
| E 1.32 | 60 | 73 | 13 | 0,33 |
| E 1.33 | 53 | 73 | 20 | 0,43 |
| E 1.34 | 33 | 80 | 47 | 0,70 |
| E 1.35 | 40 | 67 | 27 | 0,44 |
| E 1.36 | 53 | 100 | 47 | 1,00 |
| E 1.37 | 33 | 100 | 67 | 1,00 |
| E 1.38 | 67 | 87 | 20 | 0,60 |
| E 1.39 | 47 | 80 | 33 | 0,63 |
| E 1.40 | 33 | 100 | 67 | 1,00 |
| E 1.41 | 47 | 80 | 33 | 0,63 |
| E 1.42 | 13 | 67 | 53 | 0,62 |
| E 1.43 | 47 | 100 | 53 | 1,00 |
| E 1.44 | 33 | 53 | 20 | 0,30 |
| E 1.45 | 67 | 67 | 0 | 0,00 |
| E 1.46 | 33 | 67 | 33 | 0,50 |
| E 1.47 | 60 | 73 | 13 | 0,33 |
| E 1.48 | 47 | 80 | 33 | 0,63 |
| E 1.49 | 33 | 73 | 40 | 0,60 |
| E 1.50 | 33 | 80 | 47 | 0,70 |
| E 1.51 | 47 | 67 | 20 | 0,38 |
| **JUMLAH** | 2273 | 4153 | 1880 | 33 |
| **SKOR MAKSIMUM** | 67 | 100 | 73 | 1,00 |
| **SKOR MINIMUM** | 13 | 53 | 0 | 0,00 |
| **SKOR RATA-RATA** | 45 | 81 | 37 | 0,65 |
| **% SKOR RATA-RATA** | 45 | 81 | 37 | 65 |
| **SIMPANGAN BAKU** | 14 | 11 | 16 | 0,22 |

**5. Pre-Test Keterampilan Berpikir Kritis Kelas Eksperimen 2 (Kelas Kontrol)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Subjek** | **Soal No-(Skor)** | | | | | | | | | | | | | | | **Jumlah** | **Nilai** |
| **Klarifikasi Masalah** | **Mengumpulkan Informasi** | **Membuat Inferensi** | **Membuat Inferensi** | **Klarifikasi Masalah** | **Membuat Keputusan Terbaik** | **Membuat Inferensi** | **Klarifikasi Lanjut** | **Klarifikasi Masalah** | **Membuat Keputusan Terbaik** | **Klarifikasi Lanjut** | **Klarifikasi Lanjut** | **Klarifikasi Lanjut** | **Membaut Inferensi** | **Klarifikasi Lanjut** |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E 2.1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 4 | 27 |
| E 2.2 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 7 | 47 |
| E 2.3 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 8 | 53 |
| E 2.4 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 5 | 33 |
| E 2.5 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 4 | 27 |
| E 2.6 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 5 | 33 |
| E 2.7 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 20 |
| E 2.8 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 20 |
| E 2.9 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 27 |
| E 2.10 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 6 | 40 |
| E 2.11 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 4 | 27 |
| E 2.12 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 8 | 53 |
| E 2.13 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 4 | 27 |
| E 2.14 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 40 |
| E 2.15 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 8 | 53 |
| E 2.16 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 20 |
| E 2.17 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 5 | 33 |
| E 2.18 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 5 | 33 |
| E 2.19 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 9 | 60 |
| E 2.20 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 8 | 53 |
| E 2.21 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 7 | 47 |
| E 2.22 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 9 | 60 |
| E 2.23 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 13 |
| E 2.24 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 10 | 67 |
| E 2.25 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 6 | 40 |
| E 2.26 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 4 | 27 |
| E 2.27 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 5 | 33 |
| E 2.28 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 6 | 40 |
| E 2.29 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 6 | 40 |
| E 2.30 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 6 | 40 |
| E 2.31 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 5 | 33 |
| E 2.32 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 13 |
| E 2.33 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 7 | 47 |
| E 2.34 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 4 | 27 |
| E 2.35 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 5 | 33 |
| E 2.36 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 7 | 47 |
| E 2.37 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 3 | 20 |
| E 2.38 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 5 | 33 |
| E 2.39 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 6 | 40 |
| E 2.40 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 6 | 40 |
| E 2.41 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 6 | 40 |
| E 2.42 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 6 | 40 |
| E 2.43 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 7 | 47 |
| E 2.44 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 5 | 33 |
| E 2.45 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 7 | 47 |
| E 2.46 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 6 | 40 |
| E 2.47 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 9 | 60 |
| E 2.48 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 7 | 47 |
| E 2.49 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 6 | 40 |
| E 2.50 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 8 | 53 |
| E 2.51 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 7 | 47 |
| **Jumlah** | 41 | 32 | 27 | 23 | 19 | 11 | 11 | 20 | 16 | 6 | 11 | 26 | 25 | 15 | 11 | 294 | 1960 |
| Skor Maksimum | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 10,0 | 66,7 |
| Skor Minimum | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 2,0 | 13,3 |
| Skor Rata-Rata | 0,8 | 0,6 | 0,5 | 0,5 | 0,4 | 0,2 | 0,2 | 0,4 | 0,3 | 0,1 | 0,2 | 0,5 | 0,5 | 0,3 | 0,2 | 5,8 | 38,7 |
| % Skor Rata-Rata | 80 | 60 | 50 | 50 | 40 | 20 | 20 | 40 | 30 | 10 | 20 | 50 | 50 | 30 | 20 | 38,7 | 38,7 |
| Standar Deviasi | 0,4 | 0,5 | 0,5 | 0,5 | 0,5 | 0,4 | 0,4 | 0,5 | 0,5 | 0,3 | 0,4 | 0,5 | 0,5 | 0,5 | 0,4 | 1,9 | 12,4 |

Indikator Keterampilan Berpikir Kritis (Framework Norris dan Ennis, 1989)

1. Klarifikasi Masalah

2. Mengumpulkan Informasi

3. Membuat Inferensi

4. Klarifikasi Lanjut

5. Keputusan Terbaik

**6. Post-Test Keterampilan Berpikir Kritis Kelas Eksperimen 2 (Kelas Kontrol)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Subjek** | **Soal No-(Skor)** | | | | | | | | | | | | | | | **Jumlah** | **Nilai** |
| **Klarifikasi Masalah** | **Mengumpulkan Informasi** | **Membuat Inferensi** | **Membuat Inferensi** | **Klarifikasi Masalah** | **Membuat Keputusan Terbaik** | **Membuat Inferensi** | **Klarifikasi Lanjut** | **Klarifikasi Masalah** | **Membuat Keputusan Terbaik** | **Klarifikasi Lanjut** | **Klarifikasi Lanjut** | **Klarifikasi Lanjut** | **Membaut Inferensi** | **Klarifikasi Lanjut** |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E 2.1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 12 | 80 |
| E 2.2 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 11 | 73 |
| E 2.3 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 10 | 67 |
| E 2.4 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 13 | 87 |
| E 2.5 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 11 | 73 |
| E 2.6 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 7 | 47 |
| E 2.7 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 9 | 60 |
| E 2.8 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 7 | 47 |
| E 2.9 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 15 | 100 |
| E 2.10 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 12 | 80 |
| E 2.11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 14 | 93 |
| E 2.12 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 8 | 53 |
| E 2.13 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 10 | 67 |
| E 2.14 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 12 | 80 |
| E 2.15 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 11 | 73 |
| E 2.16 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 9 | 60 |
| E 2.17 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 9 | 60 |
| E 2.18 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 6 | 40 |
| E 2.19 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 11 | 73 |
| E 2.20 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 10 | 67 |
| E 2.21 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 12 | 80 |
| E 2.22 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 12 | 80 |
| E 2.23 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 10 | 67 |
| E 2.24 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 14 | 93 |
| E 2.25 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 13 | 87 |
| E 2.26 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 8 | 53 |
| E 2.27 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 15 | 100 |
| E 2.28 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 10 | 67 |
| E 2.29 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 10 | 67 |
| E 2.30 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 7 | 47 |
| E 2.31 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 9 | 60 |
| E 2.32 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 13 | 87 |
| E 2.33 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 14 | 93 |
| E 2.34 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 7 | 47 |
| E 2.35 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 9 | 60 |
| E 2.36 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 13 | 87 |
| E 2.37 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 15 | 100 |
| E 2.38 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 12 | 80 |
| E 2.39 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 10 | 67 |
| E 2.40 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 8 | 53 |
| E 2.41 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 11 | 73 |
| E 2.42 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 10 | 67 |
| E 2.43 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 14 | 93 |
| E 2.44 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 8 | 53 |
| E 2.45 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 9 | 60 |
| E 2.46 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 12 | 80 |
| E 2.47 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 12 | 80 |
| E 2.48 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 14 | 93 |
| E 2.49 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 8 | 53 |
| E 2.50 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 14 | 93 |
| E 2.51 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 11 | 73 |
| **Jumlah** | 43 | 41 | 35 | 35 | 40 | 32 | 30 | 32 | 37 | 38 | 34 | 45 | 37 | 37 | 35 | 551 | 3673 |
| Skor Maksimum | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 15,0 | 100,0 |
| Skor Minimum | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 6,0 | 40,0 |
| Skor Rata-Rata | 0,8 | 0,8 | 0,7 | 0,7 | 0,8 | 0,6 | 0,6 | 0,6 | 0,7 | 0,7 | 0,7 | 0,9 | 0,7 | 0,7 | 0,7 | 10,8 | 72,0 |
| % Skor Rata-Rata | 80 | 80 | 70 | 70 | 80 | 60 | 60 | 60 | 70 | 70 | 70 | 90 | 70 | 70 | 70 | 72,0 | 72,0 |
| Standar Deviasi | 0,4 | 0,4 | 0,5 | 0,5 | 0,4 | 0,5 | 0,5 | 0,5 | 0,5 | 0,4 | 0,5 | 0,3 | 0,5 | 0,5 | 0,5 | 2,4 | 16,1 |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | j |  |

Indikator Keterampilan Berpikir Kritis (Framework Norris dan Ennis, 1989)

1. Klarifikasi Masalah

2. Mengumpulkan Informasi

3. Membuat Inferensi

4. Klarifikasi Lanjut

5. Keputusan Terbaik

**7. N-Gain Indikator Keterampilan Berpikir Kritis Kelas Eksperimen 2 (Kelas Kontrol)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Subjek** | **Indikator 1** | | | | **Indikator 2** | | | | **Indikator 3** | | | | **Indikator 4** | | | | **Indikator 5** | | | |
| **No.1, No.5, No.9** | | | | **No.2, No.14** | | | | **No.3, No.4, No.7** | | | | **No.8, No.11, No.12, No.13, No.15** | | | | **No.6, No.10** | | | |
| **PreTest** | **PosTest** | **Gain** | **N-Gain** | **PreTest** | **PosTest** | **Gain** | **N-Gain** | **PreTest** | **PosTest** | **Gain** | **N-Gain** | **PreTest** | **PosTest** | **Gain** | **N-Gain** | **PreTest** | **PosTest** | **Gain** | **N-Gain** |
| E 2.1 | 2 | 3 | **1** | **1,00** | 1 | 2 | **1** | **1,00** | 0 | 2 | **2** | **0,67** | 1 | 4 | **3** | **0,75** | 0 | 1 | **2** | **0,50** |
| E 2.2 | 1 | 3 | **2** | **1,00** | 1 | 2 | **1** | **1,00** | 1 | 2 | **1** | **0,50** | 3 | 3 | **0** | **0,00** | 1 | 1 | **2** | **0,00** |
| E 2.3 | 2 | 3 | **1** | **1,00** | 1 | 2 | **1** | **1,00** | 2 | 1 | **-1** | **-1,00** | 2 | 3 | **1** | **0,33** | 1 | 1 | **1** | **0,00** |
| E 2.4 | 2 | 2 | **0** | **0,00** | 1 | 2 | **1** | **1,00** | 1 | 3 | **2** | **1,00** | 1 | 4 | **3** | **0,75** | 0 | 2 | **2** | **1,00** |
| E 2.5 | 1 | 3 | **2** | **1,00** | 0 | 0 | **0** | **0,00** | 1 | 2 | **1** | **0,50** | 1 | 4 | **3** | **0,75** | 1 | 2 | **2** | **1,00** |
| E 2.6 | 1 | 1 | **0** | **0,00** | 1 | 1 | **0** | **0,00** | 2 | 1 | **-1** | **-1,00** | 1 | 3 | **2** | **0,50** | 0 | 1 | **1** | **0,50** |
| E 2.7 | 1 | 2 | **1** | **0,50** | 1 | 1 | **0** | **0,00** | 0 | 2 | **2** | **0,67** | 1 | 4 | **3** | **0,75** | 0 | 0 | **0** | **0,00** |
| E 2.8 | 2 | 2 | **0** | **0,00** | 1 | 1 | **0** | **0,00** | 0 | 1 | **1** | **0,33** | 0 | 2 | **2** | **0,40** | 0 | 1 | **1** | **0,50** |
| E 2.9 | 2 | 3 | **1** | **1,00** | 1 | 2 | **1** | **1,00** | 0 | 3 | **3** | **1,00** | 1 | 5 | **4** | **1,00** | 0 | 2 | **2** | **1,00** |
| E 2.10 | 2 | 3 | **1** | **1,00** | 1 | 2 | **1** | **1,00** | 1 | 2 | **1** | **0,50** | 2 | 3 | **1** | **0,33** | 0 | 2 | **2** | **1,00** |
| E 2.11 | 1 | 3 | **2** | **1,00** | 1 | 2 | **1** | **1,00** | 1 | 3 | **2** | **1,00** | 1 | 5 | **4** | **1,00** | 0 | 1 | **1** | **0,50** |
| E 2.12 | 2 | 2 | **0** | **0,00** | 1 | 2 | **1** | **1,00** | 2 | 1 | **-1** | **-1,00** | 3 | 2 | **-1** | **-0,50** | 0 | 1 | **1** | **0,50** |
| E 2.13 | 1 | 3 | **2** | **1,00** | 1 | 2 | **1** | **1,00** | 1 | 0 | **-1** | **-0,50** | 1 | 4 | **3** | **0,75** | 0 | 1 | **1** | **0,50** |
| E 2.14 | 2 | 3 | **1** | **1,00** | 1 | 1 | **0** | **0,00** | 1 | 2 | **1** | **0,50** | 1 | 4 | **3** | **0,75** | 1 | 2 | **2** | **1,00** |
| E 2.15 | 2 | 1 | **-1** | **-1,00** | 1 | 1 | **0** | **0,00** | 2 | 2 | **0** | **0,00** | 2 | 5 | **3** | **1,00** | 1 | 2 | **2** | **1,00** |
| E 2.16 | 1 | 1 | **0** | **0,00** | 1 | 2 | **1** | **1,00** | 1 | 2 | **1** | **0,50** | 0 | 3 | **3** | **0,60** | 0 | 1 | **1** | **0,50** |
| E 2.17 | 1 | 1 | **0** | **0,00** | 1 | 1 | **0** | **0,00** | 2 | 2 | **0** | **0,00** | 1 | 3 | **2** | **0,50** | 0 | 2 | **2** | **1,00** |
| E 2.18 | 1 | 1 | **0** | **0,00** | 1 | 1 | **0** | **0,00** | 1 | 1 | **0** | **0,00** | 2 | 2 | **0** | **0,00** | 0 | 1 | **2** | **0,50** |
| E 2.19 | 2 | 3 | **1** | **1,00** | 1 | 1 | **0** | **0,00** | 2 | 2 | **0** | **0,00** | 3 | 4 | **1** | **0,50** | 1 | 1 | **1** | **0,00** |
| E 2.20 | 2 | 2 | **0** | **0,00** | 1 | 1 | **0** | **0,00** | 2 | 1 | **-1** | **-1,00** | 2 | 4 | **2** | **0,67** | 1 | 2 | **2** | **1,00** |
| E 2.21 | 2 | 2 | **0** | **0,00** | 1 | 2 | **1** | **1,00** | 1 | 3 | **2** | **1,00** | 2 | 4 | **2** | **0,67** | 1 | 1 | **1** | **0,00** |
| E 2.22 | 2 | 2 | **0** | **0,00** | 1 | 2 | **1** | **1,00** | 2 | 3 | **1** | **1,00** | 3 | 4 | **1** | **0,50** | 1 | 1 | **1** | **0,00** |
| E 2.23 | 1 | 3 | **2** | **1,00** | 0 | 2 | **2** | **1,00** | 1 | 2 | **1** | **0,50** | 0 | 3 | **3** | **0,60** | 0 | 0 | **0** | **0,00** |
| E 2.24 | 2 | 2 | **0** | **0,00** | 1 | 2 | **1** | **1,00** | 2 | 3 | **1** | **1,00** | 4 | 5 | **1** | **1,00** | 1 | 2 | **2** | **1,00** |
| E 2.25 | 2 | 2 | **0** | **0,00** | 1 | 1 | **0** | **0,00** | 1 | 3 | **2** | **1,00** | 2 | 5 | **3** | **1,00** | 0 | 2 | **2** | **1,00** |
| E 2.26 | 1 | 3 | **2** | **1,00** | 0 | 1 | **1** | **0,50** | 1 | 0 | **-1** | **-0,50** | 2 | 3 | **1** | **0,33** | 0 | 1 | **1** | **0,50** |
| E 2.27 | 1 | 3 | **2** | **1,00** | 1 | 2 | **1** | **1,00** | 0 | 3 | **3** | **1,00** | 2 | 5 | **3** | **1,00** | 1 | 2 | **2** | **1,00** |
| E 2.28 | 1 | 2 | **1** | **0,50** | 1 | 1 | **0** | **0,00** | 1 | 1 | **0** | **0,00** | 3 | 4 | **1** | **0,50** | 0 | 2 | **2** | **1,00** |
| E 2.29 | 2 | 3 | **1** | **1,00** | 1 | 2 | **1** | **1,00** | 1 | 1 | **0** | **0,00** | 2 | 3 | **1** | **0,33** | 0 | 1 | **1** | **0,50** |
| E 2.30 | 2 | 2 | **0** | **0,00** | 1 | 1 | **0** | **0,00** | 2 | 1 | **-1** | **-1,00** | 1 | 2 | **1** | **0,25** | 0 | 1 | **2** | **0,50** |
| E 2.31 | 0 | 3 | **3** | **1,00** | 1 | 1 | **0** | **0,00** | 1 | 2 | **1** | **0,50** | 2 | 3 | **1** | **0,33** | 1 | 0 | **0** | **-1,00** |
| E 2.32 | 1 | 2 | **1** | **0,50** | 1 | 2 | **1** | **1,00** | 0 | 3 | **3** | **1,00** | 0 | 4 | **4** | **0,80** | 0 | 2 | **2** | **1,00** |
| E 2.33 | 2 | 3 | **1** | **1,00** | 1 | 2 | **1** | **1,00** | 2 | 3 | **1** | **1,00** | 2 | 4 | **2** | **0,67** | 0 | 2 | **2** | **1,00** |
| E 2.34 | 1 | 2 | **1** | **0,50** | 1 | 1 | **0** | **0,00** | 1 | 1 | **0** | **0,00** | 1 | 2 | **1** | **0,25** | 0 | 1 | **2** | **0,50** |
| E 2.35 | 1 | 3 | **2** | **1,00** | 1 | 0 | **-1** | **-1,00** | 1 | 1 | **0** | **0,00** | 2 | 4 | **2** | **0,67** | 0 | 1 | **1** | **0,50** |
| E 2.36 | 1 | 2 | **1** | **0,50** | 1 | 2 | **1** | **1,00** | 2 | 3 | **1** | **1,00** | 3 | 5 | **2** | **1,00** | 0 | 1 | **1** | **0,50** |
| E 2.37 | 1 | 3 | **2** | **1,00** | 1 | 2 | **1** | **1,00** | 0 | 3 | **3** | **1,00** | 1 | 5 | **4** | **1,00** | 0 | 2 | **2** | **1,00** |
| E 2.38 | 1 | 3 | **2** | **1,00** | 1 | 2 | **1** | **1,00** | 1 | 2 | **1** | **0,50** | 1 | 3 | **2** | **0,50** | 1 | 2 | **2** | **1,00** |
| E 2.39 | 2 | 3 | **1** | **1,00** | 1 | 1 | **0** | **0,00** | 1 | 2 | **1** | **0,50** | 2 | 3 | **1** | **0,33** | 0 | 1 | **1** | **0,50** |
| E 2.40 | 2 | 2 | **0** | **0,00** | 1 | 1 | **0** | **0,00** | 1 | 1 | **0** | **0,00** | 2 | 2 | **0** | **0,00** | 0 | 2 | **2** | **1,00** |
| E 2.41 | 1 | 1 | **0** | **0,00** | 0 | 2 | **2** | **1,00** | 2 | 3 | **1** | **1,00** | 2 | 3 | **1** | **0,33** | 1 | 2 | **2** | **1,00** |
| E 2.42 | 2 | 3 | **1** | **1,00** | 1 | 0 | **-1** | **-1,00** | 1 | 2 | **1** | **0,50** | 2 | 3 | **1** | **0,33** | 0 | 2 | **2** | **1,00** |
| E 2.43 | 1 | 2 | **1** | **0,50** | 1 | 2 | **1** | **1,00** | 2 | 3 | **1** | **1,00** | 3 | 5 | **2** | **1,00** | 0 | 2 | **2** | **1,00** |
| E 2.44 | 1 | 2 | **1** | **0,50** | 1 | 2 | **1** | **1,00** | 1 | 0 | **-1** | **-0,50** | 2 | 3 | **1** | **0,33** | 0 | 1 | **1** | **0,50** |
| E 2.45 | 2 | 2 | **0** | **0,00** | 1 | 2 | **1** | **1,00** | 2 | 2 | **0** | **0,00** | 2 | 2 | **0** | **0,00** | 0 | 1 | **1** | **0,50** |
| E 2.46 | 2 | 3 | **1** | **1,00** | 1 | 2 | **1** | **1,00** | 0 | 3 | **3** | **1,00** | 2 | 3 | **1** | **0,33** | 1 | 1 | **2** | **0,00** |
| E 2.47 | 2 | 3 | **1** | **1,00** | 1 | 2 | **1** | **1,00** | 2 | 2 | **0** | **0,00** | 3 | 4 | **1** | **0,50** | 1 | 1 | **1** | **0,00** |
| E 2.48 | 2 | 3 | **1** | **1,00** | 1 | 2 | **1** | **1,00** | 1 | 3 | **2** | **1,00** | 3 | 5 | **2** | **1,00** | 0 | 1 | **1** | **0,50** |
| E 2.49 | 1 | 2 | **1** | **0,50** | 1 | 1 | **0** | **0,00** | 1 | 1 | **0** | **0,00** | 2 | 3 | **1** | **0,33** | 1 | 1 | **1** | **0,00** |
| E 2.50 | 2 | 2 | **0** | **0,00** | 1 | 2 | **1** | **1,00** | 2 | 3 | **1** | **1,00** | 3 | 5 | **2** | **1,00** | 0 | 2 | **2** | **1,00** |
| E 2.51 | 1 | 2 | **1** | **0,50** | 1 | 2 | **1** | **1,00** | 2 | 2 | **0** | **0,00** | 3 | 3 | **0** | **0,00** | 0 | 2 | **2** | **1,00** |
| **JUMLAH** | **76** | **120** | **3** | **27,50** | **47** | **78** | **31** | **28,50** | **61** | **100** | **39** | **17,17** | **93** | **183** | **90** | **27,73** | **17** | **70** | **76** | **30,00** |
| **SKOR MAKSIMUM** | **2** | **3** | **-1** | **1,00** | **1** | **2** | **2** | **1** | **2** | **3** | **3** | **1** | **4** | **5** | **4** | **1** | **1** | **2** | **2** | **1** |
| **SKOR MINIMUM** | **0** | **1** | **0,86** | **-1,00** | **0** | **0** | **-1** | **-1** | **0** | **0** | **-1** | **-1,00** | **0** | **2** | **-1** | **-0,5** | **0** | **0** | **0** | **-1** |
| **SKOR RATA-RATA** | **1,49** | **2,35** | **0,83** | **0,54** | **0,92** | **1,53** | **0,61** | **0,56** | **1,20** | **1,96** | **0,76** | **0,34** | **1,82** | **3,59** | **1,76** | **0,54** | **0,33** | **1,37** | **1,49** | **0,59** |
| **% SKOR RATA-RATA** | **49,7** | **78,3** |  |  | **46** | **76,5** |  |  | **40** | **65,3** |  |  | **36,4** | **71,8** |  |  | **16,5** | **68,5** |  |  |
| **SIMPANGAN BAKU** | **0,54** | **0,69** |  | **0,50** | **0,27** | **0,61** | **0,63** | **0,57** | **0,69** | **0,92** | **1,18** | **0,64** | **0,93** | **0,98** | **1,19** | **0,34** | **0,48** | **0,60** | **0,61** | **0,44** |

Indikator Keterampilan Berpikir Kritis (Framework Norris dan Ennis, 1989)

1. Klarifikasi Masalah

2. Mengumpulkan Informasi

3. Membuat Inferensi

4. Klarifikasi Lanjut

5. Keputusan Terbaik

**8. N-Gain Nilai Keterampilan Berpikir Kritis Kelas Eksperimen 2 (Kelas Kontrol)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Subjek** | **PreTest** | **PosTest** | **Gain** | **N-Gain** |
|
|
| E 2.1 | 27 | 80 | 53 | 0,73 |
| E 2.2 | 47 | 73 | 27 | 0,50 |
| E 2.3 | 53 | 67 | 13 | 0,29 |
| E 2.4 | 33 | 87 | 53 | 0,80 |
| E 2.5 | 27 | 73 | 47 | 0,64 |
| E 2.6 | 33 | 47 | 13 | 0,20 |
| E 2.7 | 20 | 60 | 40 | 0,50 |
| E 2.8 | 20 | 47 | 27 | 0,33 |
| E 2.9 | 27 | 100 | 73 | 1,00 |
| E 2.10 | 40 | 80 | 40 | 0,67 |
| E 2.11 | 27 | 93 | 67 | 0,91 |
| E 2.12 | 53 | 53 | 0 | 0,00 |
| E 2.13 | 27 | 67 | 40 | 0,55 |
| E 2.14 | 40 | 80 | 40 | 0,67 |
| E 2.15 | 53 | 73 | 20 | 0,43 |
| E 2.16 | 20 | 60 | 40 | 0,50 |
| E 2.17 | 33 | 60 | 27 | 0,40 |
| E 2.18 | 33 | 40 | 7 | 0,10 |
| E 2.19 | 60 | 73 | 13 | 0,33 |
| E 2.20 | 53 | 67 | 13 | 0,29 |
| E 2.21 | 47 | 80 | 33 | 0,63 |
| E 2.22 | 60 | 80 | 20 | 0,50 |
| E 2.23 | 13 | 67 | 53 | 0,62 |
| E 2.24 | 67 | 93 | 27 | 0,80 |
| E 2.25 | 40 | 87 | 47 | 0,78 |
| E 2.26 | 27 | 53 | 27 | 0,36 |
| E 2.27 | 33 | 100 | 67 | 1,00 |
| E 2.28 | 40 | 67 | 27 | 0,44 |
| E 2.29 | 40 | 67 | 27 | 0,44 |
| E 2.30 | 40 | 47 | 7 | 0,11 |
| E 2.31 | 33 | 60 | 27 | 0,40 |
| E 2.32 | 13 | 87 | 73 | 0,85 |
| E 2.33 | 47 | 93 | 47 | 0,88 |
| E 2.34 | 27 | 47 | 20 | 0,27 |
| E 2.35 | 33 | 60 | 27 | 0,40 |
| E 2.36 | 47 | 87 | 40 | 0,75 |
| E 2.37 | 20 | 100 | 80 | 1,00 |
| E 2.38 | 33 | 80 | 47 | 0,70 |
| E 2.39 | 40 | 67 | 27 | 0,44 |
| E 2.40 | 40 | 53 | 13 | 0,22 |
| E 2.41 | 40 | 73 | 33 | 0,56 |
| E 2.42 | 40 | 67 | 27 | 0,44 |
| E 2.43 | 47 | 93 | 47 | 0,88 |
| E 2.44 | 33 | 53 | 20 | 0,30 |
| E 2.45 | 47 | 60 | 13 | 0,25 |
| E 2.46 | 40 | 80 | 40 | 0,67 |
| E 2.47 | 60 | 80 | 20 | 0,50 |
| E 2.48 | 47 | 93 | 47 | 0,88 |
| E 2.49 | 40 | 53 | 13 | 0,22 |
| E 2.50 | 53 | 93 | 40 | 0,86 |
| E 2.51 | 47 | 73 | 27 | 0,50 |
| **JUMLAH** | 1960 | 3673 | 1713 | 27 |
| **SKOR MAKSIMUM** | 67 | 100 | 80 | 1,00 |
| **SKOR MINIMUM** | 13 | 40 | 0 | 0,00 |
| **SKOR RATA-RATA** | 38 | 72 | 34 | 0,54 |
| **% SKOR RATA-RATA** | 38 | 72 | 34 | 54 |
| **SIMPANGAN BAKU** | 12 | 16 | 18 | 0,25 |

**8. Perbandingan N-Gain Nilai Keterampilan Berpikir Kritis Kelas Eksperimen 1 dan Kelas Eksperimen 2 (Kelas Kontrol)**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Subjek** | **PreTest** | **PosTest** | **Gain** | **N-Gain** | **Subjek** | **PreTest** | **PosTest** | **Gain** | **N-Gain** |
|
|
| E 1.1 | 67 | 93 | 27 | 0,80 | E 2.1 | 27 | 80 | 53 | 0,73 |
| E 1.2 | 40 | 87 | 47 | 0,78 | E 2.2 | 47 | 73 | 27 | 0,50 |
| E 1.3 | 53 | 80 | 27 | 0,57 | E 2.3 | 53 | 67 | 13 | 0,29 |
| E 1.4 | 27 | 93 | 67 | 0,91 | E 2.4 | 33 | 87 | 53 | 0,80 |
| E 1.5 | 47 | 100 | 53 | 1,00 | E 2.5 | 27 | 73 | 47 | 0,64 |
| E 1.6 | 67 | 87 | 20 | 0,60 | E 2.6 | 33 | 47 | 13 | 0,20 |
| E 1.7 | 53 | 73 | 20 | 0,43 | E 2.7 | 20 | 60 | 40 | 0,50 |
| E 1.8 | 20 | 73 | 53 | 0,67 | E 2.8 | 20 | 47 | 27 | 0,33 |
| E 1.9 | 27 | 80 | 53 | 0,73 | E 2.9 | 27 | 100 | 73 | 1,00 |
| E 1.10 | 53 | 80 | 27 | 0,57 | E 2.10 | 40 | 80 | 40 | 0,67 |
| E 1.11 | 40 | 67 | 27 | 0,44 | E 2.11 | 27 | 93 | 67 | 0,91 |
| E 1.12 | 20 | 73 | 53 | 0,67 | E 2.12 | 53 | 53 | 0 | 0,00 |
| E 1.13 | 47 | 87 | 40 | 0,75 | E 2.13 | 27 | 67 | 40 | 0,55 |
| E 1.14 | 47 | 87 | 40 | 0,75 | E 2.14 | 40 | 80 | 40 | 0,67 |
| E 1.15 | 47 | 53 | 7 | 0,13 | E 2.15 | 53 | 73 | 20 | 0,43 |
| E 1.16 | 27 | 73 | 47 | 0,64 | E 2.16 | 20 | 60 | 40 | 0,50 |
| E 1.17 | 40 | 80 | 40 | 0,67 | E 2.17 | 33 | 60 | 27 | 0,40 |
| E 1.18 | 60 | 93 | 33 | 0,83 | E 2.18 | 33 | 40 | 7 | 0,10 |
| E 1.19 | 60 | 87 | 27 | 0,67 | E 2.19 | 60 | 73 | 13 | 0,33 |
| E 1.20 | 40 | 80 | 40 | 0,67 | E 2.20 | 53 | 67 | 13 | 0,29 |
| E 1.21 | 53 | 87 | 33 | 0,71 | E 2.21 | 47 | 80 | 33 | 0,63 |
| E 1.22 | 67 | 93 | 27 | 0,80 | E 2.22 | 60 | 80 | 20 | 0,50 |
| E 1.23 | 40 | 80 | 40 | 0,67 | E 2.23 | 13 | 67 | 53 | 0,62 |
| E 1.24 | 60 | 93 | 33 | 0,83 | E 2.24 | 67 | 93 | 27 | 0,80 |
| E 1.25 | 67 | 87 | 20 | 0,60 | E 2.25 | 40 | 87 | 47 | 0,78 |
| E 1.26 | 40 | 80 | 40 | 0,67 | E 2.26 | 27 | 53 | 27 | 0,36 |
| E 1.27 | 47 | 93 | 47 | 0,88 | E 2.27 | 33 | 100 | 67 | 1,00 |
| E 1.28 | 53 | 73 | 20 | 0,43 | E 2.28 | 40 | 67 | 27 | 0,44 |
| E 1.29 | 33 | 93 | 60 | 0,90 | E 2.29 | 40 | 67 | 27 | 0,44 |
| E 1.30 | 13 | 87 | 73 | 0,85 | E 2.30 | 40 | 47 | 7 | 0,11 |
| E 1.31 | 40 | 93 | 53 | 0,89 | E 2.31 | 33 | 60 | 27 | 0,40 |
| E 1.32 | 60 | 73 | 13 | 0,33 | E 2.32 | 13 | 87 | 73 | 0,85 |
| E 1.33 | 53 | 73 | 20 | 0,43 | E 2.33 | 47 | 93 | 47 | 0,88 |
| E 1.34 | 33 | 80 | 47 | 0,70 | E 2.34 | 27 | 47 | 20 | 0,27 |
| E 1.35 | 40 | 67 | 27 | 0,44 | E 2.35 | 33 | 60 | 27 | 0,40 |
| E 1.36 | 53 | 100 | 47 | 1,00 | E 2.36 | 47 | 87 | 40 | 0,75 |
| E 1.37 | 33 | 100 | 67 | 1,00 | E 2.37 | 20 | 100 | 80 | 1,00 |
| E 1.38 | 67 | 87 | 20 | 0,60 | E 2.38 | 33 | 80 | 47 | 0,70 |
| E 1.39 | 47 | 80 | 33 | 0,63 | E 2.39 | 40 | 67 | 27 | 0,44 |
| E 1.40 | 33 | 100 | 67 | 1,00 | E 2.40 | 40 | 53 | 13 | 0,22 |
| E 1.41 | 47 | 80 | 33 | 0,63 | E 2.41 | 40 | 73 | 33 | 0,56 |
| E 1.42 | 13 | 67 | 53 | 0,62 | E 2.42 | 40 | 67 | 27 | 0,44 |
| E 1.43 | 47 | 100 | 53 | 1,00 | E 2.43 | 47 | 93 | 47 | 0,88 |
| E 1.44 | 33 | 53 | 20 | 0,30 | E 2.44 | 33 | 53 | 20 | 0,30 |
| E 1.45 | 67 | 67 | 0 | 0,00 | E 2.45 | 47 | 60 | 13 | 0,25 |
| E 1.46 | 33 | 67 | 33 | 0,50 | E 2.46 | 40 | 80 | 40 | 0,67 |
| E 1.47 | 60 | 73 | 13 | 0,33 | E 2.47 | 60 | 80 | 20 | 0,50 |
| E 1.48 | 47 | 80 | 33 | 0,63 | E 2.48 | 47 | 93 | 47 | 0,88 |
| E 1.49 | 33 | 73 | 40 | 0,60 | E 2.49 | 40 | 53 | 13 | 0,22 |
| E 1.50 | 33 | 80 | 47 | 0,70 | E 2.50 | 53 | 93 | 40 | 0,86 |
| E 1.51 | 47 | 67 | 20 | 0,38 | E 2.51 | 47 | 73 | 27 | 0,50 |
| **JUMLAH** | 2273 | 4153 | 1880 | 33 | **JUMLAH** | 1960 | 3673 | 1713 | 27 |
| **SKOR MAKSIMUM** | 67 | 100 | 73 | 1,00 | **SKOR MAKSIMUM** | 67 | 100 | 80 | 1,00 |
| **SKOR MINIMUM** | 13 | 53 | 0 | 0,00 | **SKOR MINIMUM** | 13 | 40 | 0 | 0,00 |
| **SKOR RATA-RATA** | 45 | 81 | 37 | 0,65 | **SKOR RATA-RATA** | 38 | 72 | 34 | 0,54 |
| **% SKOR RATA-RATA** | 45 | 81 | 37 | 65 | **% SKOR RATA-RATA** | 38 | 72 | 34 | 54 |
| **SIMPANGAN BAKU** | 14 | 11 | 16 | 0,22 | **SIMPANGAN BAKU** | 12 | 16 | 18 | 0,25 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Pretest** | | **Postest** | | **N-Gain** | |
| **Eks 1** | **Eks2** | **Eks 1** | **Eks2** | **Eks 1** | **Eks2** |
| 45 | 38 | 81 | 72 | 65 | 54 |