1. Observing the effect of the problem-based learning model on student learning outcomes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **List of Questions** | **Yes** | **No** | **Description** |
| 1 | Students are given a pretest by the teacher |  |  |  |
| 2 | The teacher checks the results of the pretest and conveys the problems faced by the students then the students are divided into heterogeneous groups |  |  |  |
| 3 | The teacher explains the learning objectives and motivates students to be involved in problem solving activities |  |  |  |
| 4 | provide material briefly about General entries |  |  |  |
| 5 | Students are faced with a real problem that spurs them to research, describe, and find solutions in groups |  |  |  |
| 6 | Students solve problems in groups and encourage students to collect relevant information |  |  |  |
| 7 | Motivate students to work together in groups |  |  |  |
| 8 | Directing and guiding students to be active in group discussions to solve the problem |  |  |  |
| 9 | Students share group assignments withher friend |  |  |  |
| 10 | Helping students to evaluate through presentations on the results of their group work. |  |  |  |
| 11 | Provide opportunities for studentsto ask |  |  |  |
| 12 | The problem-based learning model increases students' attention in the learning process. |  |  |  |
| 13 | Concluding learning |  |  |  |
| 14 | The teacher gives a posttest fordone individually |  |  |  |

1. Value of learning outcomes pre-test and post-test class X Accounting 1

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Nama** | **Nilai pre test** | **Nilai post test** |
| 1 | ALWI | 60 | 80 |
| 2 | BARDOT PRAKOSA EDISON | 55 | 94 |
| 3 | BAYU PUTRA PANGESTU | 60 | 87 |
| 4 | DHINUL AKBAR | 60 | 92 |
| 5 | DHIRAM ZUL-QADRI | 60 | 98 |
| 6 | FIRDAYANTI | 70 | 100 |
| 7 | GILANG SAPUTRA | 70 | 93 |
| 8 | HASMIRA HARIS | 0 | 0 |
| 9 | HAUDI SYAM | 60 | 90 |
| 10 | INDAR | 60 | 90 |
| 11 | JUMARDI | 60 | 65 |
| 12 | MUH AGUS JAYA | 60 | 75 |
| 13 | MUH ARDY DARMAWAN K | 90 | 100 |
| 14 | MUH FIRDAUS | 70 | 98 |
| 15 | MUH IBNU MUNZIR | 0 | 0 |
| 16 | MUH RIJAL | 70 | 92 |
| 17 | MUH YUSRI K | 60 | 68 |
| 18 | MUSLIMIN | 60 | 87 |
| 19 | MUTMAINNAH | 95 | 100 |
| 20 | NURANNISA | 80 | 96 |
| 21 | NUR AZIZAH | 70 | 98 |
| 22 | NUR FAHIRAWATI | 95 | 100 |
| 23 | NUR MUHLISA | 80 | 96 |
| 24 | NURUL MIFTAH KHAIRIYAH | 70 | 100 |
| 25 | NURUL SARINAH ALFIRAYANTI | 70 | 100 |
| 26 | PRATIWI | 70 | 100 |
| 27 | RAHMAT RAMADHAN | 60 | 78 |
| 28 | RAHMATIA | 70 | 93 |
| 29 | RINI ANGGRIANI | 70 | 98 |
| 30 | RISKA | 70 | 100 |
| 31 | RESHA RANGGA RERI | 70 | 98 |
| 32 | SERLIANA | 80 | 100 |
| 33 | WAHYUDI | 65 | 70 |
| 34 | ZULFIANI AULIA | 70 | 98 |

1. Value of Observation Sheets and Learning Outcomes

|  |  |  |  |
| --- | --- | --- | --- |
| **Respondent** | **Respondent Name** | ***Problem-based******learning* (X)** | **Learning Outcomes****(Y)** |
| 1 | ALWI | 13 | 80 |
| 2 | BARDOT PRAKOSA EDISON | 14 | 94 |
| 3 | BAYU PUTRA PANGESTU | 14 | 87 |
| 4 | DHINUL AKBAR | 13 | 92 |
| 5 | DHIRAM ZUL-QADRI | 14 | 98 |
| 6 | FIRDAYANTI | 12 | 100 |
| 7 | GILANG SAPUTRA | 14 | 93 |
| 8 | HASMIRA HARIS | 14 | 0 |
| 9 | HAUDI SYAM | 14 | 90 |
| 10 | INDAR | 13 | 90 |
| 11 | JUMARDI | 12 | 65 |
| 12 | MUH AGUS JAYA | 14 | 75 |
| 13 | MUH ARDY DARMAWAN K | 14 | 100 |
| 14 | MUH FIRDAUS | 13 | 98 |
| 15 | MUH IBNU MUNZIR | 13 | 0 |
| 16 | MUH RIJAL | 13 | 92 |
| 17 | MUH YUSRI K | 14 | 68 |
| 18 | MUSLIMIN | 14 | 87 |
| 19 | MUTMAINNAH | 14 | 100 |
| 20 | NURANNISA | 12 | 96 |
| 21 | NUR AZIZAH | 13 | 98 |
| 22 | NUR FAHIRAWATI | 13 | 100 |
| 23 | NUR MUHLISA | 12 | 96 |
| 24 | NURUL MIFTAH KHAIRIYAH | 14 | 100 |
| 25 | NURUL SARINAH ALFIRAYANTI | 13 | 100 |
| 26 | PRATIWI | 14 | 100 |
| 27 | RAHMAT RAMADHAN | 12 | 78 |
| 28 | RAHMATIA | 13 | 93 |
| 29 | RINI ANGGRIANI | 14 | 98 |
| 30 | RISKA | 14 | 100 |
| 31 | RESHA RANGGA RERI | 14 | 98 |
| 32 | SERLIANA | 13 | 100 |
| 33 | WAHYUDI | 11 | 70 |
| 34 | ZULFIANI AULIA | 13 | 98 |