**The Effectiveness of Online Learning Using Zoom Meetings**

**at Elementary Schools**

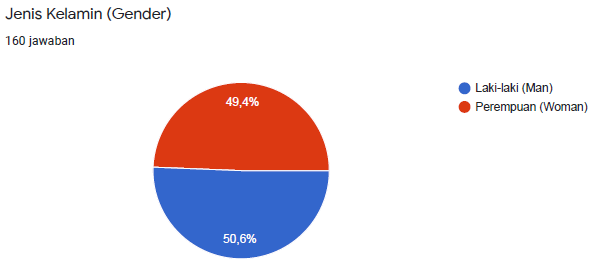
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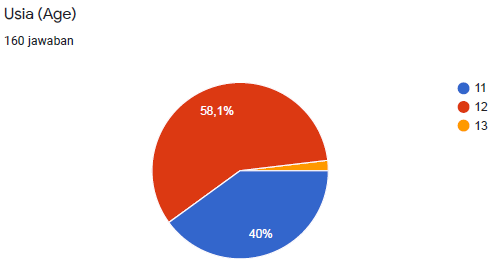
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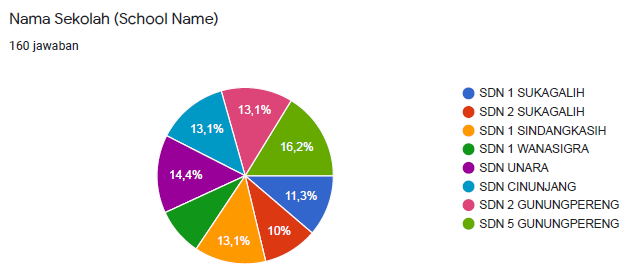
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**GROUP 1 - DATA COLLECTION**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Statements** | **Strongly Agree** | **Agree** | **Can Not Say** | **Disagree** | **Strongly Disagree** | **Total Number Of Responses** |
| 1 | I understand the learning material, as long as I use of zoom meetings in online learning | 21 | 116 | 8 | 14 | 1 | 160 |
| 13,13% | 72,50% | 5,00% | 8,75% | 0,63% | 100% |
| 2 | I feel in online learning using zoom meetings is fun | 14 | 99 | 29 | 17 | 1 | 160 |
| 8,75% | 61,88% | 18,13% | 10,63% | 0,63% | 100,00% |
| 3 | My parents or family are able to guide me well while studying from home | 26 | 98 | 6 | 28 | 2 | 160 |
| 16,25% | 61,25% | 3,75% | 17,50% | 1,25% | 100,00% |
| 4 | Learning resources are easily obtained during online learning | 13 | 112 | 12 | 22 | 1 | 160 |
| 8,13% | 70,00% | 7,50% | 13,75% | 0,63% | 100,00% |
| 5 | I can still concentrate on learning through zoom meetings in online learning | 17 | 100 | 27 | 15 | 1 | 160 |
| 10,63% | 62,50% | 16,88% | 9,38% | 0,63% | 100,00% |
| 6 | I don't have any problems when participating in online learning using zoom meetings | 13 | 94 | 27 | 26 | 0 | 160 |
| 8,13% | 58,75% | 16,88% | 16,25% | 0,00% | 100,00% |
| 7 | I have complete facilities to participate zoom meetings in online learning | 15 | 97 | 24 | 24 | 0 | 160 |
| 9,38% | 60,63% | 15,00% | 15,00% | 0,00% | 100,00% |
| 8 | I can use Zoom Meetings in online learning | 16 | 102 | 25 | 17 | 0 | 160 |
| 10,00% | 63,75% | 15,63% | 10,63% | 0,00% | 100,00% |
| 9 | I can do assignments well during online learning | 17 | 107 | 18 | 18 | 0 | 160 |
| 10,63% | 66,88% | 11,25% | 11,25% | 0,00% | 100,00% |
| 10 | Submit assignments of online learning is easy to do | 15 | 116 | 17 | 9 | 3 | 160 |
| 9,38% | 72,50% | 10,63% | 5,63% | 1,88% | 100,00% |
| 11 | I easily interact with the teacher during zoom meetings in online learning | 19 | 101 | 20 | 19 | 1 | 160 |
| 11,88% | 63,13% | 12,50% | 11,88% | 0,63% | 100,00% |
| 12 | My parents motivate me to study actively at home | 29 | 99 | 16 | 15 | 1 | 160 |
| 18,13% | 61,88% | 10,00% | 9,38% | 0,63% | 100,00% |
| 13 | The online learning materials using Zoom Meetings has been delivered well | 19 | 103 | 13 | 24 | 1 | 160 |
| 11,88% | 64,38% | 8,13% | 15,00% | 0,63% | 100,00% |
| 14 | The learning methods when using Zoom Meetings are varied | 15 | 121 | 14 | 9 | 1 | 160 |
| 9,38% | 75,63% | 8,75% | 5,63% | 0,63% | 100,00% |
| 15 | The teacher's assessment of learning when using the Zoom Meetings is objective | 21 | 122 | 9 | 7 | 1 | 160 |
| 13,13% | 76,25% | 5,63% | 4,38% | 0,63% | 100,00% |
| 16 | I can write in chat box zoom meetings | 13 | 102 | 33 | 12 | 0 | 160 |
| 8,13% | 63,75% | 20,63% | 7,50% | 0,00% | 100,00% |
| 17 | I can use reaction in zoom meetings | 11 | 90 | 41 | 17 | 1 | 160 |
| 6,88% | 56,25% | 25,63% | 10,63% | 0,63% | 100,00% |
| 18 | I can share screen in the zoom meetings | 14 | 83 | 33 | 29 | 1 | 160 |
| 8,75% | 51,88% | 20,63% | 18,13% | 0,63% | 100,00% |
| Total Number | | 308 | 1862 | 372 | 322 | 16 | 2880 |
| Presentage | | 10,69% | 64,65% | 12,92% | 11,18% | 0,56% | 100% |







**GROUP 1 - DATA ANALYZE**

**Statement Classification**

|  |  |  |
| --- | --- | --- |
| **No.** | **Statement Classification** | **Number of Statements** |
| 1. | Carrying capacity | 4, 7, 13, 14, 15 |
| 2. | Learning environment | 3, 12 |
| 3. | Student interaction | 9, 11 |
| 4. | Easy access | 1,2,5,6,8,10 |
| 5. | Zoom Meetings features | 16, 17, 18 |

1. **Carrying Capacity (Daya Dukung)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Statements** | **Strongly Agree** | **Agree** | **Can Not Say** | **Disagree** | **Strongly Disagree** | **Total Number Of Responses** |
| 4 | Learning resources are easily obtained during online learning | 13 | 112 | 12 | 22 | 1 | 160 |
| 8,13% | 70,00% | 7,50% | 13,75% | 0,63% | 100,00% |
| 7 | I have complete facilities to participate zoom meetings in online learning | 15 | 97 | 24 | 24 | 0 | 160 |
| 9,38% | 60,63% | 15,00% | 15,00% | 0,00% | 100,00% |
| 13 | The online learning materials using Zoom Meetings have been delivered well | 19 | 103 | 13 | 24 | 1 | 160 |
| 11,88% | 64,38% | 8,13% | 15,00% | 0,63% | 100,00% |
| 14 | The learning methods when using Zoom Meetings are varied | 15 | 121 | 14 | 9 | 1 | 160 |
| 9,38% | 75,63% | 8,75% | 5,63% | 0,63% | 100,00% |
| 15 | The teacher's assessment of learning when using the Zoom Meetings is objective | 21 | 122 | 9 | 7 | 1 | 160 |
| 13,13% | 76,25% | 5,63% | 4,38% | 0,63% | 100,00% |
| Total Number | | 83 | 555 | 72 | 86 | 4 | 800 |
| Presentage | | 10 % | 69 % | 9 % | 11 % | 1 % | 100% |

1. **Learning Environment (Lingkungan Belajar)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Statements** | **Strongly Agree** | **Agree** | **Can Not Say** | **Disagree** | **Strongly Disagree** | **Total Number Of Responses** |
| 3 | My parents or family are able to guide me well while studying from home | 26 | 98 | 6 | 28 | 2 | 160 |
| 16,25% | 61,25% | 3,75% | 17,50% | 1,25% | 100,00% |
| 12 | My parents motivate me to study actively at home | 29 | 99 | 16 | 15 | 1 | 160 |
| 18,13% | 61,88% | 10,00% | 9,38% | 0,63% | 100,00% |
| Total Number | | 55 | 197 | 22 | 43 | 3 | 320 |
| Presentage | | 17 % | 62 % | 7 % | 13 % | 1 % | 100% |

1. **Student Interaction (Interaksi Siswa)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Statements** | **Strongly Agree** | **Agree** | **Can Not Say** | **Disagree** | **Strongly Disagree** | **Total Number Of Responses** |
| 9 | I can do assignments well during online learning | 17 | 107 | 18 | 18 | 0 | 160 |
| 10,63% | 66,88% | 11,25% | 11,25% | 0,00% | 100,00% |
| 11 | I easily interact with the teacher during zoom meetings in online learning | 19 | 101 | 20 | 19 | 1 | 160 |
| 11,88% | 63,13% | 12,50% | 11,88% | 0,63% | 100,00% |
| Total Number | | 36 | 208 | 38 | 37 | 1 | 320 |
| Presentage | | 11% | 65% | 12% | 11% | 1% | 100% |

1. **Easy Access (Kemudahan Akses)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Statements** | **Strongly Agree** | **Agree** | **Can Not Say** | **Disagree** | **Strongly Disagree** | **Total Number Of Responses** |
| 1 | I understand the learning material, as long as I use of zoom meetings in online learning | 21 | 116 | 8 | 14 | 1 | 160 |
| 13,13% | 72,50% | 5,00% | 8,75% | 0,63% | 100% |
| 2 | I feel in online learning using zoom meetings is fun | 14 | 99 | 29 | 17 | 1 | 160 |
| 8,75% | 61,88% | 18,13% | 10,63% | 0,63% | 100,00% |
| 5 | I can still concentrate on learning through zoom meetings in online learning | 17 | 100 | 27 | 15 | 1 | 160 |
| 10,63% | 62,50% | 16,88% | 9,38% | 0,63% | 100,00% |
| 6 | I don't have any problems when participating in online learning using zoom meetings | 13 | 94 | 27 | 26 | 0 | 160 |
| 8,13% | 58,75% | 16,88% | 16,25% | 0,00% | 100,00% |
| 8 | I can use Zoom Meetings in online learning | 16 | 102 | 25 | 17 | 0 | 160 |
| 10,00% | 63,75% | 15,63% | 10,63% | 0,00% | 100,00% |
| 10 | Submit assignments of online learning is easy to do | 15 | 116 | 17 | 9 | 3 | 160 |
| 9,38% | 72,50% | 10,63% | 5,63% | 1,88% | 100,00% |
| Total Number | | 96 | 627 | 133 | 98 | 6 | 960 |
| Presentage | | 10% | 65 % | 14 % | 10 % | 1 % | 100% |

1. **Zoom Meetings Features (Fitur Zoom Meetings)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Statements** | **Strongly Agree** | **Agree** | **Can Not Say** | **Disagree** | **Strongly Disagree** | **Total Number Of Responses** |
| 16 | I can write in chat box zoom meetings | 13 | 102 | 33 | 12 | 0 | 160 |
| 8,13% | 63,75% | 20,63% | 7,50% | 0,00% | 100,00% |
| 17 | I can use reaction in zoom meetings | 11 | 90 | 41 | 17 | 1 | 160 |
| 6,88% | 56,25% | 25,63% | 10,63% | 0,63% | 100,00% |
| 18 | I can share screen in the zoom meetings | 14 | 83 | 33 | 29 | 1 | 160 |
| 8,75% | 51,88% | 20,63% | 18,13% | 0,63% | 100,00% |
| Total Number | | 38 | 275 | 107 | 58 | 2 | 480 |
| Presentage | | 8 % | 57 % | 21 % | 12 % | 1 % | 100% |

**RESULT OF RESEARCH**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No.** | **Statement Classification** | **Persentage** | | | | |
| **Strongly Agree** | **Agree** | **Can Not Say** | **Disagree** | **Strongly Disagree** |
| 1. | Carrying capacity | 10 % | 69 % | 9 % | 11 % | 1 % |
| 2. | Learning environment | 17 % | 62 % | 7 % | 13 % | 1 % |
| 3. | Student interaction | 11 % | 65 % | 12 % | 11 % | 1 % |
| 4. | Easy access | 10 % | 65 % | 14 % | 10 % | 1 % |
| 5. | Zoom Meetings features | 8 % | 58 % | 22 % | 12 % | 0 % |
| **Mean** | | **11%** | **64%** | **13%** | **11%** | **1%** |
| **Standar Deviation** | | **0,034205** | **0,040866** | **0,058052** | **0,011402** | **0,004472** |

Based on the data it can be concluded that:

**INTERVIEW RESULTS**

1. How is the effectiveness of online learning in the era of the Covid-19 pandemic?

Learning online during a pandemic is extremely tough. Learning will be ineffective when a pandemic occurs, not because of the limits of learning equipment such as cellphones and laptops, but because of pressure and study habits. In the era of the epidemic, parents occasionally provided cellphones or computers to their children.

1. Is online learning in the era of the Covid-19 pandemic student centered?

Learning activities in schools are completely student-centered in the pandemic era; teachers merely direct and instruct online learning activities in class, and students can complete assignments using Internet or book references

1. How is the educational interaction between teachers and students learning in the era of the Covid-19 pandemic?

Because the information submitted or questions given by the teacher to students is sometimes not clearly heard by students, and sometimes students do not understand what the teacher is saying, the interaction between teachers and students, or students and students, in online learning is not optimal. -decreased, and the student's response to the stimulus provided by the teacher is reduced

1. Does online learning use varied methods? Learning materials, learning media, and online learning approaches have all differed. However, due to the restricted amount of time available, online learning is not the best option
2. Is the use of learning resources used by you in accordance with the learning outcomes?

Because of the restricted time available for studying, the use of learning resources in online learning was not optimum at first. However, once a new curriculum is in place, the teacher can maximize learning.

1. Does a conducive environment determine the effectiveness of online learning in the era of the Covid-19 pandemic?

Students will be more flexible in finding information about school assignments if they are in a conducive setting. A comfortable atmosphere around the house will have an impact on the ease of finding information, and students will be more flexible in finding information about school assignments

1. Are the facilities and infrastructure that you use effective in supporting the online learning process in the era of the Covid-19 pandemic?

Because the teacher has a cellphone, laptop, and signals that enable online learning, the facilities and infrastructure deployed have been effective in facilitating the online learning process in the era of the Covid-19 epidemic.

1. Are there any problems with online learning?

Many challenges were encountered, including student readiness to learn, limited additional class time, the need for extra time outside of school hours, and limited student cell phones. The environmental conditions in which a student lives have a strong influence on his or her willingness to learn. Not all parents can assist their children in learning online, and a less conducive learning environment causes students to be less focused on learning

1. Are there solutions for online learning in the era of the Covid-19 pandemic?

Online learning with Zoomeeting as platforms that can be used as an alternative to online learning.

1. Is online learning to use Zoom Meetings an effective solution in the era of the Covid-19 pandemic?

Teachers frequently employ simpler and easier-to-use programs in online learning since, based on student experience, not all students know how to use online learning applications. Zoom Meetings is a new application that is known by teachers and students. However, because Zoom Meetings have many advantages in supporting online learning during the Covid-19 pandemic. So, Zoom Meetings can be used as an effective solution for learning in the era of the Covid-19 pandemic.