

Reliabilitas Soal Berbicara

No	Nama	No.soal (X)																Total (Y)	total ² (Y ²)
		1	1 ²	2	2 ²	3	3 ²	4	4 ²	5	5 ²	6	6 ²	7	7 ²	8	8 ²		
1	Ahmad Sahrul	9	81	15	225	14	196	10	100	12	144	10	100	14	196	13	169	97	9409
2	Amania Ramad	15	225	11	121	13	169	11	121	10	100	13	169	9	81	12	144	94	8836
3	Anisa Pratiwi	10	100	9	81	5	25	5	25	5	25	12	144	6	36	5	25	57	3249
4	Assyifah	15	225	18	324	17	289	12	144	16	256	13	169	10	100	9	81	110	12100
5	Dela Safitri	15	225	19	361	6	36	11	121	13	169	11	121	19	361	7	49	101	10201
6	Diah Putri	14	196	5	25	16	256	11	121	12	144	8	64	9	81	9	81	84	7056
7	Elfransyah	10	100	14	196	13	169	10	100	6	36	8	64	13	169	7	49	81	6561
8	Eva Putriani	5	25	7	49	15	225	17	289	18	324	17	289	10	100	13	169	102	10404
9	Inne Tasya R	11	121	15	225	14	196	10	100	12	144	10	100	14	196	15	225	101	10201
10	Irvan Mahmud M	16	256	8	64	13	169	10	100	6	36	11	121	14	196	12	144	90	8100
11	Laila Nur Fitri	18	324	9	81	14	196	11	121	9	81	12	144	5	25	5	25	83	6889
12	Muhammad Faqih	14	196	11	121	10	100	15	225	13	169	13	169	15	225	13	169	104	10816
13	M. Ramadhan F	11	121	14	196	13	169	10	100	12	144	9	81	14	196	14	196	97	9409
14	Nadiyah Vidia Tsani	15	225	11	121	13	169	11	121	9	81	13	169	7	49	10	100	89	7921

15	Nur Aini Rahmawati	18	324	9	81	14	196	11	121	9	81	12	144	5	25	5	25	83	6889
16	Raqfli Akbar	15	225	13	169	14	196	12	144	10	100	13	169	9	81	15	225	101	102201
17	Reza Pahlevi	15	225	14	196	14	196	13	169	12	144	12	144	12	144	12	144	104	10816
18	Sri Suci Sugiarti	15	225	14	196	17	289	13	169	14	196	15	225	13	169	16	256	117	13689
19	Tiara Puji Lestari	16	256	7	49	15	225	10	100	6	36	11	121	14	196	9	81	88	7744
20	Tiara Yunita	16	256	14	196	17	289	13	169	14	196	14	196	13	169	16	256	117	13689
Jumlah		273	3931	237	3077	267	3755	226	2660	218	2606	237	2903	225	2795	217	2613	1900	184180

Rumus varian

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

$$\sigma^2 (1) = \frac{3931 - \frac{(273)^2}{20}}{20} = \frac{3931 - 3726,45}{20} = \frac{204,55}{20} = 10,25$$

$$\sigma^2 (5) = \frac{2606 - \frac{(218)^2}{20}}{20} = \frac{2606 - 2376,2}{20} = \frac{229,8}{20} = 11,49$$

$$\sigma^2 (2) = \frac{3077 - \frac{(237)^2}{20}}{20} = \frac{3077 - 2808,45}{20} = \frac{268,55}{20} = 13,43$$

$$\sigma^2 (6) = \frac{2903 - \frac{(237)^2}{20}}{20} = \frac{2903 - 2808,45}{20} = \frac{94,55}{20} = 4,73$$

$$\sigma^2 (3) = \frac{3755 - \frac{(267)^2}{20}}{20} = \frac{3755 - 3564,45}{20} = \frac{190,55}{20} = 9,53$$

$$\sigma^2 (7) = \frac{2795 - \frac{(225)^2}{20}}{20} = \frac{2795 - 2531,25}{20} = \frac{263,75}{20} = 13,19$$

$$\sigma^2 (4) = \frac{2660 - \frac{(226)^2}{20}}{20} = \frac{2660 - 2553,8}{20} = \frac{106,2}{20} = 5,31$$

$$\sigma^2 (8) = \frac{2613 - \frac{(217)^2}{20}}{20} = \frac{2613 - 2354,45}{20} = \frac{258,55}{20} = 10,25$$

Jumlah varian semua item ($\sum \sigma^2_i$) = 10,23 + 13,43 + 9,53 + 5,31 + 11,49 + 4,73 + 13,19 + 12,92 = 80,83

Varian total =

$$\sigma^2_t = \frac{184180 - \frac{(1900)^2}{20}}{20} = \frac{184180 - 1800500}{20} = \frac{3680}{20} = 184$$

Dimasukkan ke dalam rumus Alpha =

$$r_{11} = \left(\frac{n}{n-1} \right) \left(1 - \frac{\sum \sigma^2_t}{\sigma^2_t} \right) = \left(\frac{8}{8-1} \right) \left(1 - \frac{80,83}{184} \right) = (1,142) (1-0,439) = 0,641$$

Interpretasi dari 0,64 adalah kuat

Validitas Soal Berbicara											
No	Nama	No.soal (X)								Skor	Skor
		1	2	3	4	5	6	7	8	Total (Y)	total ² (Y ²)
1	Ahmad Sahrul	9	15	14	10	12	10	14	13	97	9409
2	Amania Ramad	15	11	13	11	10	13	9	12	94	8836
3	Anisa Pratiwi	10	9	5	5	5	12	6	5	57	3249
4	Assyifah	15	18	17	12	16	13	10	9	110	12100
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6	Diah Putri	14	5	16	11	12	8	9	9	84	7056
7	Elfransyah	10	14	13	10	6	8	13	7	81	6561
8	Eva Putriani	5	7	15	17	18	17	10	13	102	10404
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10	Irvan Mahmud M	16	8	13	10	6	11	14	12	90	8100
11	Laila Nur Fitri	18	9	14	11	9	12	5	5	83	6889
12	Muhammad Faqih	14	11	10	15	13	13	15	13	104	10816
13	M. Ramadhan F	11	14	13	10	12	9	14	14	97	9409
14	Nadiyah Vidia Tsani	15	11	13	11	9	13	7	10	89	7921
15	Nur Aini Rahmawati	18	9	14	11	9	12	5	5	83	6889
16	Raqfli Akbar	15	13	14	12	10	13	9	15	101	10201
17	Reza Pahlevi	15	14	14	13	12	12	12	12	104	10816
18	Sri Suci Sugiarti	15	14	17	13	14	15	13	16	117	13689
19	Tiara Puji Lestari	16	7	15	10	6	11	14	9	88	7744
20	Tiara Yunita	16	14	17	13	14	14	13	16	117	13689
Jumlah		273	237	267	226	218	237	225	217	1900	184180
r tabel		0,44	0,44	0,44	0,44	0,44	0,44	0,44	0,44		
r hitung		0.09	0.52	0.52	0.71	0.76	0.42	0.50	0.74		
Interpretasi		drop	valid	valid	valid	valid	drop	valid	valid		

