

# LAMPIRAN 7

## Data Interval Variabel X1 (Motivasi)

No. Resp								Data X1 Interval								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	TOTAL
1	3,214	3,188	2,359	2,297	4,482	2,299	4,503	3,496	3,264	3,560	3,070	3,404	3,360	1,987	3,709	48
2	3,214	4,503	2,359	2,297	4,482	2,299	4,503	3,496	3,264	3,560	4,301	2,160	4,636	1,987	1,700	49
3	2,062	4,503	3,744	4,734	4,482	3,635	3,126	3,496	3,264	3,560	3,070	1,000	4,636	1,987	1,700	49
4	4,428	4,503	2,359	4,734	4,482	3,635	3,126	2,500	3,264	3,560	3,070	2,160	4,636	4,289	2,629	54
5	4,428	4,503	2,359	3,460	4,482	2,299	1,951	3,496	3,264	2,437	2,041	3,404	3,360	1,987	3,709	47
6	4,428	4,503	3,744	4,734	4,482	3,635	4,503	2,500	4,503	4,760	2,041	3,404	4,636	3,035	3,709	59
7	4,428	4,503	3,744	4,734	4,482	3,635	4,503	4,684	4,503	3,560	4,301	3,404	4,636	3,035	3,709	62
8	3,214	3,188	3,744	3,460	4,482	2,299	3,126	3,496	4,503	3,560	3,070	1,000	2,336	3,035	2,629	47
9	2,062	4,503	3,744	3,460	3,191	2,299	3,126	2,500	2,233	3,560	2,041	1,000	3,360	1,987	3,709	43
10	2,062	3,188	2,359	4,734	4,482	2,299	3,126	3,496	4,503	3,560	3,070	3,404	3,360	4,289	2,629	51
11	4,428	3,188	2,359	4,734	4,482	3,635	3,126	2,500	3,264	4,760	3,070	3,404	4,636	4,289	4,933	57
12	4,428	4,503	2,359	2,297	4,482	2,299	1,951	3,496	3,264	2,437	3,070	3,404	4,636	1,987	3,709	48
13	2,062	2,152	2,359	3,460	3,191	1,000	3,126	1,612	2,233	3,560	3,070	2,160	3,360	1,987	2,629	38
14	4,428	4,503	3,744	3,460	4,482	3,635	3,126	2,500	3,264	3,560	3,070	3,404	3,360	1,000	3,709	51
15	3,214	3,188	3,744	2,297	4,482	3,635	4,503	2,500	3,264	3,560	4,301	3,404	4,636	1,987	2,629	51
16	4,428	4,503	3,744	4,734	4,482	3,635	3,126	3,496	4,503	4,760	3,070	3,404	4,636	3,035	3,709	59
17	2,062	3,188	1,000	4,734	4,482	3,635	1,951	2,500	3,264	2,437	3,070	1,000	1,612	1,987	3,709	41
18	3,214	3,188	2,359	2,297	3,191	2,299	1,000	3,496	3,264	2,437	1,000	2,160	3,360	3,035	2,629	39
19	3,214	4,503	3,744	4,734	4,482	3,635	3,126	3,496	3,264	3,560	3,070	2,160	3,360	3,035	3,709	53
20	4,428	4,503	2,359	4,734	4,482	3,635	3,126	4,684	4,503	4,760	3,070	2,160	4,636	3,035	3,709	58
21	2,062	2,152	1,000	1,000	2,126	1,000	3,126	3,496	2,233	3,560	2,041	1,000	3,360	3,035	1,000	32

<b>22</b>	3,214	3,188	3,744	4,734	3,191	2,299	4,503	4,684	3,264	3,560	2,041	1,000	4,636	4,289	4,933	53
<b>23</b>	4,428	4,503	3,744	4,734	4,482	3,635	4,503	4,684	4,503	4,760	4,301	3,404	3,360	3,035	3,709	62
<b>24</b>	4,428	4,503	3,744	4,734	4,482	1,000	4,503	4,684	4,503	4,760	4,301	3,404	3,360	3,035	4,933	61
<b>25</b>	4,428	3,188	3,744	2,297	2,126	3,635	3,126	4,684	4,503	2,437	4,301	1,000	3,360	3,035	3,709	50
<b>26</b>	4,428	2,152	2,359	3,460	3,191	2,299	4,503	4,684	4,503	4,760	3,070	3,404	3,360	4,289	3,709	54
<b>27</b>	3,214	3,188	2,359	3,460	3,191	2,299	3,126	3,496	3,264	4,760	4,301	2,160	3,360	3,035	3,709	49
<b>28</b>	4,428	4,503	2,359	3,460	3,191	2,299	3,126	4,684	4,503	4,760	4,301	3,404	4,636	4,289	4,933	59
<b>29</b>	3,214	3,188	2,359	3,460	3,191	2,299	4,503	4,684	4,503	4,760	4,301	2,160	3,360	3,035	3,709	53
<b>30</b>	3,214	3,188	2,359	3,460	4,482	3,635	4,503	3,496	3,264	3,560	3,070	1,000	4,636	3,035	2,629	50
<b>31</b>	2,062	1,501	2,359	3,460	2,126	1,000	3,126	1,000	2,233	2,437	3,070	2,160	3,360	1,987	2,629	35
<b>32</b>	3,214	3,188	2,359	3,460	4,482	1,000	4,503	3,496	4,503	3,560	4,301	3,404	2,336	3,035	2,629	50
<b>33</b>	4,428	2,152	2,359	3,460	3,191	2,299	1,951	3,496	2,233	3,560	4,301	1,000	3,360	3,035	3,709	45
<b>34</b>	3,214	3,188	2,359	4,734	3,191	1,000	1,951	2,500	3,264	3,560	3,070	2,160	2,336	3,035	2,629	42
<b>35</b>	4,428	4,503	2,359	2,297	4,482	2,299	3,126	3,496	2,233	4,760	3,070	1,000	4,636	1,987	3,709	49
<b>36</b>	3,214	3,188	2,359	3,460	3,191	2,299	3,126	3,496	4,503	4,760	4,301	2,160	3,360	3,035	3,709	50
<b>37</b>	4,428	3,188	2,359	4,734	3,191	3,635	4,503	4,684	4,503	2,437	4,301	1,000	2,336	4,289	3,709	53
<b>38</b>	4,428	4,503	1,000	3,460	2,126	2,299	4,503	3,496	4,503	3,560	3,070	1,000	3,360	1,987	2,629	46
<b>39</b>	3,214	2,152	2,359	3,460	3,191	3,635	4,503	4,684	4,503	3,560	3,070	3,404	4,636	4,289	4,933	56
<b>40</b>	4,428	4,503	3,744	4,734	4,482	3,635	3,126	3,496	2,233	2,437	2,041	1,000	3,360	3,035	3,709	50
<b>41</b>	4,428	4,503	1,000	2,297	3,191	2,299	3,126	3,496	4,503	4,760	1,000	3,404	4,636	4,289	4,933	52
<b>42</b>	2,062	3,188	2,359	2,297	2,126	1,000	3,126	2,500	3,264	2,437	4,301	3,404	4,636	4,289	2,629	44
<b>43</b>	3,214	4,503	2,359	3,460	3,191	2,299	4,503	4,684	4,503	4,760	3,070	2,160	3,360	3,035	3,709	53
<b>44</b>	3,214	4,503	2,359	3,460	4,482	3,635	4,503	3,496	4,503	3,560	4,301	3,404	3,360	4,289	3,709	57
<b>45</b>	3,214	3,188	2,359	2,297	3,191	2,299	3,126	3,496	3,264	4,760	4,301	3,404	4,636	4,289	4,933	53
<b>46</b>	3,214	3,188	2,359	2,297	3,191	2,299	3,126	4,684	4,503	4,760	4,301	3,404	4,636	4,289	4,933	55

<b>47</b>	3,214	4,503	2,359	3,460	3,191	2,299	3,126	3,496	3,264	2,437	2,041	2,160	3,360	3,035	4,933	47
<b>48</b>	3,214	4,503	2,359	4,734	2,126	2,299	4,503	4,684	4,503	4,760	2,041	1,000	3,360	3,035	3,709	51
<b>49</b>	3,214	3,188	1,000	2,297	3,191	2,299	3,126	2,500	2,233	2,437	2,041	2,160	1,000	1,000	2,629	34
<b>50</b>	4,428	4,503	3,744	4,734	4,482	1,000	4,503	4,684	4,503	2,437	3,070	2,160	2,336	3,035	4,933	55
<b>51</b>	4,428	3,188	2,359	3,460	2,126	1,000	3,126	4,684	3,264	2,437	3,070	3,404	2,336	1,000	3,709	44
<b>52</b>	4,428	3,188	1,000	3,460	4,482	2,299	1,951	3,496	4,503	3,560	2,041	2,160	3,360	4,289	2,629	47
<b>53</b>	3,214	2,152	3,744	3,460	3,191	2,299	4,503	2,500	3,264	2,437	4,301	3,404	4,636	3,035	3,709	50
<b>54</b>	4,428	4,503	2,359	3,460	4,482	2,299	3,126	2,500	3,264	3,560	3,070	2,160	3,360	3,035	3,709	49
<b>55</b>	3,214	4,503	2,359	3,460	4,482	2,299	4,503	4,684	2,233	3,560	2,041	1,000	2,336	3,035	3,709	47
<b>56</b>	3,214	3,188	2,359	3,460	4,482	2,299	4,503	3,496	4,503	2,437	4,301	2,160	3,360	3,035	4,933	52
<b>57</b>	4,428	4,503	3,744	4,734	4,482	3,635	3,126	2,500	4,503	4,760	4,301	3,404	4,636	4,289	4,933	62
<b>58</b>	4,428	4,503	3,744	4,734	3,191	2,299	4,503	3,496	4,503	4,760	3,070	2,160	2,336	1,987	2,629	53
<b>59</b>	3,214	3,188	2,359	3,460	2,126	1,000	3,126	2,500	2,233	2,437	2,041	1,000	2,336	1,000	1,700	34
<b>60</b>	1,000	3,188	2,359	2,297	2,126	2,299	3,126	1,612	3,264	3,560	3,070	2,160	3,360	1,987	2,629	38
<b>61</b>	3,214	3,188	3,744	3,460	4,482	3,635	4,503	4,684	4,503	4,760	4,301	3,404	4,636	4,289	4,933	62
<b>62</b>	3,214	3,188	2,359	3,460	3,191	2,299	4,503	3,496	3,264	2,437	3,070	3,404	3,360	4,289	4,933	51
<b>63</b>	4,428	4,503	3,744	3,460	3,191	2,299	3,126	4,684	4,503	4,760	4,301	3,404	4,636	4,289	4,933	60
<b>64</b>	3,214	4,503	1,000	2,297	3,191	1,000	3,126	4,684	2,233	1,000	3,070	2,160	2,336	4,289	2,629	41
<b>65</b>	3,214	3,188	2,359	3,460	3,191	3,635	4,503	4,684	2,233	2,437	2,041	2,160	4,636	3,035	4,933	50
<b>66</b>	2,062	4,503	2,359	3,460	3,191	2,299	4,503	3,496	3,264	3,560	3,070	2,160	3,360	3,035	3,709	48
<b>67</b>	3,214	2,152	2,359	3,460	3,191	2,299	3,126	2,500	2,233	2,437	3,070	2,160	1,612	3,035	3,709	41
<b>68</b>	3,214	3,188	3,744	4,734	2,126	2,299	4,503	4,684	4,503	3,560	3,070	2,160	4,636	3,035	3,709	53
<b>69</b>	3,214	2,152	1,000	2,297	1,000	2,299	3,126	2,500	2,233	2,437	1,000	2,160	3,360	3,035	3,709	36
<b>70</b>	2,062	3,188	1,000	3,460	3,191	2,299	4,503	4,684	3,264	3,560	2,041	2,160	3,360	3,035	2,629	44
<b>71</b>	3,214	3,188	3,744	3,460	3,191	1,000	4,503	3,496	3,264	2,437	3,070	2,160	4,636	4,289	4,933	51

<b>72</b>	3,214	1,000	2,359	2,297	2,126	2,299	1,951	3,496	1,000	3,560	2,041	2,160	2,336	1,987	3,709	36
<b>73</b>	3,214	3,188	2,359	3,460	3,191	2,299	3,126	3,496	3,264	3,560	3,070	2,160	3,360	3,035	3,709	47
<b>74</b>	4,428	4,503	3,744	4,734	4,482	3,635	4,503	4,684	4,503	4,760	4,301	3,404	4,636	4,289	4,933	66
<b>75</b>	3,214	3,188	2,359	3,460	3,191	1,000	3,126	2,500	3,264	3,560	2,041	2,160	3,360	3,035	3,709	43
<b>76</b>	4,428	4,503	3,744	4,734	4,482	3,635	4,503	4,684	3,264	3,560	3,070	2,160	3,360	3,035	3,709	57
<b>77</b>	2,062	2,152	1,000	3,460	3,191	2,299	3,126	3,496	3,264	3,560	3,070	2,160	3,360	3,035	3,709	43
<b>78</b>	3,214	3,188	2,359	3,460	3,191	2,299	3,126	3,496	4,503	4,760	4,301	3,404	2,336	1,987	2,629	48
<b>79</b>	4,428	4,503	3,744	4,734	4,482	3,635	4,503	2,500	4,503	4,760	4,301	3,404	4,636	4,289	3,709	62
<b>80</b>	4,428	4,503	3,744	4,734	4,482	3,635	4,503	4,684	4,503	3,560	4,301	3,404	4,636	3,035	2,629	61
<b>81</b>	3,214	3,188	3,744	3,460	4,482	3,635	4,503	4,684	4,503	3,560	3,070	2,160	3,360	3,035	2,629	53
																4031

### CONTOH PERHITUNGAN MANUAL *METHOD OF SUCCESSIVE INTERVAL*

Hasil perhitungan menaikkan skala dari ordinal ke interval dengan menggunakan *method of successive interval (MSI)* untuk pernyataan item 1 (satu) variabel X1

Langkah-langkah *metode successive interval* dapat dijelaskan sebagai berikut:

Tabel untuk pernyataan item 1 (satu) variabel X1 dapat dijelaskan sebagai berikut:

No. Item	Kategori Skor Jawaban Ordinal	Frekuensi	Proporsional	Proporsional Kumulatif	Densitas (f(z))	Z	Nilai Hasil Interval
1	1	1	0.012	0.012	0.032	-2.246	1.000
	3	11	0.136	0.148	0.231	-1.044	2.062
	4	38	0.469	0.617	0.382	0.298	3.214
	5	31	0.383	1.000	0.000		4.428
Jumlah		81					

**Penjelasan :**

- a. Nomor item pertanyaan yang akan di MSI adalah item 1 variabel X
- b. Kategori skor jawaban responden dalam Skala Ordinal (*Likert*) berkisar nilainya antara 1 – 5.
- c. Masing-masing skor jawaban dalam skala ordinal dihitung frekuensinya.  
 Dalam contoh diatas  
 Frekuensi skor jawaban 1 = 1

Frekuensi skor jawaban 3 = 11

Frekuensi skor jawaban 4 = 38

Frekuensi skor jawaban 5 = 31

- d. Menghitung proporsi untuk setiap frekuensi skor

$$P_1 = \frac{1}{81} = 0,012$$

$$P_4 = \frac{38}{81} = 0,469$$

$$P_3 = \frac{11}{81} = 0,136$$

$$P_5 = \frac{31}{81} = 0,383$$

- e. Menjumlahkan proporsi secara berurutan untuk setiap respon, sehingga diperoleh nilai proporsi kumulatif.

$$Pk_1 = 0,012 = 0,012$$

$$Pk_3 = 0,012 + 0,136 = 0,148$$

$$Pk_4 = 0,012 + 0,136 + 0,469 = 0,617$$

$$Pk_5 = 0,012 + 0,136 + 0,469 + 0,383 = 1,000$$

- f. Menentukan nilai Z untuk setiap kategori, dengan asumsi bahwa proporsi kumulatif dianggap mengikuti distribusi normal baku. Nilai Z diperoleh dari Tabel Distribusi Normal Baku.

<b>Proporsi Kumulatif</b>	<b>Z</b>
0,012	-2.246
0,136	-1.044
0,469	0.298

1,000	
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- g. Menghitung nilai densitas dari nilai Z yang diperoleh dengan cara memasukkan nilai Z tersebut ke dalam fungsi densitas normal baku sebagai berikut:

$$f(z) = \frac{1}{\sqrt{2\pi}} \exp\left(-\frac{1}{2}z^2\right)$$

sehingga diperoleh :

$$f(-2.246) = \frac{1}{\sqrt{2\pi}} \exp\left(-\frac{1}{2}(-2.246)^2\right) = 0.032$$

$$f(-1.044) = \frac{1}{\sqrt{2\pi}} \exp\left(-\frac{1}{2}(-1.044)^2\right) = 0.231$$

$$f(0.298) = \frac{1}{\sqrt{2\pi}} \exp\left(-\frac{1}{2}(0.298)^2\right) = 0.382$$

- h. Menghitung SV (*Scale Value*) dengan rumus :

$$SV = \frac{\text{density at lower limit} - \text{density at upper limit}}{\text{area under offer limit} - \text{under lower limit}}$$

$$SV_1 = \frac{0,000 - 0,032}{0,012 - 0,000} = -2,667$$

$$SV_2 = \frac{0,000 - 0,032}{0,012 - 0,000} = -2,667$$

$$SV_3 = \frac{0,032 - 0,231}{0,136 - 0,012} = -1,605$$

$$SV_4 = \frac{0,231 - 0,382}{0,469 - 0,136} = -0,453$$

$$SV_5 = \frac{0,382 - 0,000}{1,000 - 0,496} = 0,758$$

- i. Mengubah Scale Value (SV) terkecil (nilai negatif yang terbesar) menjadi sama dengan satu (1)

$$Sv \text{ terkecil} = -2,667 = 1 \text{ didapat dari } (-2,667 + 3,667 = 1) = Y1$$

- j. Mentransformasikan nilai skala dengan menggunakan rumus :

$$Y = SV + |SV \text{ min}|$$

$$Y3 = (-1,605 + 3,667 = 2,062)$$

$$Y4 = (-0,453 + 3,667 = 3,214)$$

$$Y5 = (0,758 + 3,667 = 4,428)$$

**Dengan langkah-langkah yang sama untuk menghitung skala interval pada butir pertanyaan 2 dst.**



## DATA MSI X1

No. Item	Kategori Skor Jawaban Ordinal	Frekuensi	Proporsional	Proporsional Kumulatif	Densitas (f(z))	Z	Nilai Hasil Interval
1	1	1	0.012	0.012	0.032	-2.246	1.000
	3	11	0.136	0.148	0.231	-1.044	2.061
	4	38	0.469	0.617	0.382	0.298	3.314
	5	31	0.383	1.000	0.000		4.421

No. Item	Kategori Skor Jawaban Ordinal	Frekuensi	Proporsional	Proporsional Kumulatif	Densitas (f(z))	Z	Nilai Hasil Interval
2	1	1	0.012	0.012	0.032	-2.246	1.000
	2	1	0.012	0.025	0.058	-1.965	1.500
	3	9	0.111	0.136	0.218	-1.099	2.151
	4	35	0.432	0.568	0.393	0.171	3.184
	5	35	0.432	1.000	0.000		4.500

No. Item	Kategori Skor Jawaban Ordinal	Frekuensi	Proporsional	Proporsional Kumulatif	Densitas (f(z))	Z	Nilai Hasil Interval
3	3	10	0.123	0.123	0.204	-1.158	1.000
	4	44	0.543	0.667	0.364	0.431	2.351
	5	27	0.333	1.000	0.000		3.741

No. Item	Kategori Skor Jawaban Ordinal	Frekuensi	Proporsional	Proporsional Kumulatif	Densitas (f(z))	Z	Nilai Hasil Interval
4	2	1	0.012	0.012	0.032	-2.246	1.000
	3	16	0.198	0.210	0.288	-0.807	2.291
	4	39	0.481	0.691	0.352	0.500	3.461
	5	25	0.309	1.000	0.000		4.731

No. Item	Kategori Skor Jawaban Ordinal	Frekuensi	Proporsional	Proporsional Kumulatif	Densitas (f(z))	Z	Nilai Hasil Interval
5	2	1	0.012	0.012	0.032	-2.246	1.000

	3	11	0.136	0.148	0.231	-1.044	2.12
	4	33	0.407	0.556	0.395	0.140	3.19
	5	36	0.444	1.000	0.000		4.48

No. Item	Kategori Skor Jawaban Ordinal	Frekuensi	Proporsional	Proporsional Kumulatif	Densitas (f(z))	Z	Nilai Hasil Interval
6	3	13	0.160	0.160	0.244	-0.992	1.00
	4	42	0.519	0.679	0.358	0.465	2.29
	5	26	0.321	1.000	0.000	8.210	3.63

No. Item	Kategori Skor Jawaban Ordinal	Frekuensi	Proporsional	Proporsional Kumulatif	Densitas (f(z))	Z	Nilai Hasil Interval
7	2	1	0.012	0.012	0.032	-2.246	1.00
	3	7	0.086	0.099	0.174	-1.289	1.95
	4	38	0.469	0.568	0.393	0.171	3.12
	5	35	0.432	1.000	0.000		4.50

No. Item	Kategori Skor Jawaban Ordinal	Frekuensi	Proporsional	Proporsional Kumulatif	Densitas (f(z))	Z	Nilai Hasil Interval
8	1	1	0.012	0.012	0.032	-2.246	1.00
	2	2	0.025	0.037	0.081	-1.786	1.61
	3	18	0.222	0.259	0.324	-0.646	2.50
	4	33	0.407	0.667	0.364	0.431	3.49
	5	27	0.333	1.000	0.000		4.68

No. Item	Kategori Skor Jawaban Ordinal	Frekuensi	Proporsional	Proporsional Kumulatif	Densitas (f(z))	Z	Nilai Hasil Interval
9	2	1	0.012	0.012	0.032	-2.246	1.00
	3	14	0.173	0.185	0.267	-0.896	2.23
	4	31	0.383	0.568	0.393	0.171	3.26
	5	35	0.432	1.000	0.000		4.50

No. Item	Kategori Skor Jawaban	Frekuensi	Proporsional	Proporsional Kumulatif	Densitas (f(z))	Z	Nilai Hasil Interval
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Ordinal							
10	2	1	0.012	0.012	0.032	-2.246	1.000
	3	21	0.259	0.272	0.332	-0.608	2.430
	4	35	0.432	0.704	0.346	0.535	3.560
	5	24	0.296	1.000	0.000		4.760

No. Item	Kategori Skor Jawaban Ordinal	Frekuensi	Proporsional	Proporsional Kumulatif	Densitas (f(z))	Z	Nilai Hasil Interval
11	2	3	0.037	0.037	0.081	-1.786	1.000
	3	16	0.198	0.235	0.307	-0.724	2.040
	4	36	0.444	0.679	0.358	0.465	3.070
	5	26	0.321	1.000	0.000	8.210	4.300

No. Item	Kategori Skor Jawaban Ordinal	Frekuensi	Proporsional	Proporsional Kumulatif	Densitas (f(z))	Z	Nilai Hasil Interval
12	3	16	0.198	0.198	0.278	-0.850	1.000
	4	34	0.420	0.617	0.382	0.298	2.160
	5	31	0.383	1.000	0.000		3.400

No. Item	Kategori Skor Jawaban Ordinal	Frekuensi	Proporsional	Proporsional Kumulatif	Densitas (f(z))	Z	Nilai Hasil Interval
13	1	1	0.012	0.012	0.032	-2.246	1.000
	2	2	0.025	0.037	0.081	-1.786	1.610
	3	12	0.148	0.185	0.267	-0.896	2.330
	4	37	0.457	0.642	0.373	0.364	3.360
	5	29	0.358	1.000	0.000		4.630

No. Item	Kategori Skor Jawaban Ordinal	Frekuensi	Proporsional	Proporsional Kumulatif	Densitas (f(z))	Z	Nilai Hasil Interval
14	2	4	0.049	0.049	0.102	-1.651	1.000

	3	16	0.198	0.247	0.316	-0.684	1.98
	4	39	0.481	0.728	0.332	0.608	3.03
	5	22	0.272	1.000	0.000	8.210	4.28
No. Item	Kategori Skor Jawaban Ordinal	Frekuensi	Proporsional	Proporsional Kumulatif	Densitas (f(z))	Z	Nilai Hasil Interval
<b>15</b>	1	1	0.012	0.012	0.032	-2.246	1.00
	2	3	0.037	0.049	0.102	-1.651	1.70
	3	21	0.259	0.309	0.352	-0.500	2.62
	4	38	0.469	0.778	0.298	0.765	3.70
	5	18	0.222	1.000	0.000	8.210	4.93