

**** ARGUMEN MASA DALAM WAKTU PIAWAI MALAYSIA ****

MATAHARI

2019 Januari

WPM h	GST			R.A.			GHA			DEK			SD	
	j	m	s	j	m	s	j	m	s	o	'	"	'	"
1.00	22	40	8	18	43	10	3	56	57	-23	3	51	16	16.0
2.00	22	44	5	18	47	36	3	56	29	-22	59	3	16	16.1
3.00	22	48	1	18	52	0	3	56	0	-22	53	48	16	16.1
4.00	22	51	58	18	56	25	3	55	33	-22	48	6	16	16.1
5.00	22	55	54	19	0	49	3	55	5	-22	41	57	16	16.1
6.00	22	59	51	19	5	12	3	54	38	-22	35	21	16	16.0
7.00	23	3	48	19	9	36	3	54	11	-22	28	18	16	16.0
8.00	23	7	44	19	13	58	3	53	45	-22	20	48	16	16.0
9.00	23	11	41	19	18	20	3	53	20	-22	12	52	16	16.0
10.00	23	15	37	19	22	42	3	52	55	-22	4	30	16	16.0
11.00	23	19	34	19	27	3	3	52	30	-21	55	42	16	16.0
12.00	23	23	30	19	31	24	3	52	6	-21	46	28	16	15.9
13.00	23	27	27	19	35	44	3	51	43	-21	36	48	16	15.9
14.00	23	31	23	19	40	3	3	51	20	-21	26	44	16	15.8
15.00	23	35	20	19	44	22	3	50	58	-21	16	15	16	15.8
16.00	23	39	17	19	48	40	3	50	36	-21	5	21	16	15.7
17.00	23	43	13	19	52	57	3	50	16	-20	54	3	16	15.7
18.00	23	47	10	19	57	14	3	49	56	-20	42	21	16	15.6
19.00	23	51	6	20	1	29	3	49	36	-20	30	16	16	15.6
20.00	23	55	3	20	5	44	3	49	18	-20	17	48	16	15.5
21.00	23	58	59	20	9	59	3	49	0	-20	4	56	16	15.4
22.00	0	2	56	20	14	12	3	48	43	-19	51	42	16	15.3
23.00	0	6	52	20	18	25	3	48	27	-19	38	6	16	15.2
24.00	0	10	49	20	22	37	3	48	11	-19	24	8	16	15.1
25.00	0	14	45	20	26	49	3	47	56	-19	9	49	16	15.0
26.00	0	18	42	20	30	59	3	47	42	-18	55	8	16	14.9
27.00	0	22	39	20	35	9	3	47	29	-18	40	6	16	14.8
28.00	0	26	35	20	39	18	3	47	17	-18	24	44	16	14.7
29.00	0	30	32	20	43	26	3	47	5	-18	9	2	16	14.6
30.00	0	34	28	20	47	34	3	46	54	-17	53	1	16	14.4
31.00	0	38	25	20	51	40	3	46	44	-17	36	40	16	14.3

MATAHARI

2019

Februari

WPM h	GST			R.A.			GHA			DEK			SD		
	j	m	s	j	m	s	j	m	s	o	'	"	'	"	
1.00	0	42	21	20	55	46	3	46	35	-17	20	0	16	14.2	
2.00	0	46	18	20	59	51	3	46	26	-17	3	2	16	14.0	
3.00	0	50	14	21	3	55	3	46	19	-16	45	46	16	13.9	
4.00	0	54	11	21	7	59	3	46	12	-16	28	12	16	13.7	
5.00	0	58	8	21	12	1	3	46	6	-16	10	21	16	13.6	
6.00	1	2	4	21	16	3	3	46	1	-15	52	14	16	13.4	
7.00	1	6	1	21	20	4	3	45	56	-15	33	49	16	13.3	
8.00	1	9	57	21	24	4	3	45	53	-15	15	9	16	13.1	
8.50	13	11	56	21	26	4	15	45	51	-15	5	43	16	13.0	
9.00	1	13	54	21	28	4	3	45	50	-14	56	14	16	12.9	
10.00	1	17	50	21	32	2	3	45	48	-14	37	3	16	12.8	
11.00	1	21	47	21	36	0	3	45	47	-14	17	38	16	12.6	
12.00	1	25	44	21	39	57	3	45	46	-13	57	58	16	12.4	
13.00	1	29	40	21	43	53	3	45	46	-13	38	5	16	12.3	
14.00	1	33	37	21	47	48	3	45	48	-13	17	58	16	12.1	
15.00	1	37	33	21	51	43	3	45	50	-12	57	38	16	11.9	
16.00	1	41	30	21	55	37	3	45	52	-12	37	6	16	11.7	
17.00	1	45	26	21	59	30	3	45	56	-12	16	22	16	11.5	
18.00	1	49	23	22	3	23	3	46	0	-11	55	26	16	11.3	
19.00	1	53	19	22	7	14	3	46	5	-11	34	18	16	11.1	
20.00	1	57	16	22	11	5	3	46	10	-11	13	0	16	10.9	
21.00	2	1	13	22	14	56	3	46	16	-10	51	31	16	10.7	
22.00	2	5	9	22	18	46	3	46	23	-10	29	53	16	10.5	
23.00	2	9	6	22	22	35	3	46	31	-10	8	4	16	10.3	
24.00	2	13	2	22	26	23	3	46	39	-	9	46	6	16	10.0
25.00	2	16	59	22	30	11	3	46	47	-	9	23	59	16	9.8
26.00	2	20	55	22	33	58	3	46	56	-	9	1	43	16	9.6
27.00	2	24	52	22	37	45	3	47	6	-	8	39	20	16	9.3
28.00	2	28	48	22	41	31	3	47	17	-	8	16	48	16	9.1

MATAHARI

2019

Mac

WPM h	GST			R.A.			GHA			DEK			SD		
	j	m	s	j	m	s	j	m	s	o	'	"	'	"	
1.00	2	32	45	22	45	17	3	47	27	-	7	54	10	16	8.9
2.00	2	36	42	22	49	2	3	47	39	-	7	31	24	16	8.6
3.00	2	40	38	22	52	47	3	47	51	-	7	8	31	16	8.4
4.00	2	44	35	22	56	31	3	48	3	-	6	45	33	16	8.1
5.00	2	48	31	23	0	15	3	48	16	-	6	22	29	16	7.9
6.00	2	52	28	23	3	58	3	48	29	-	5	59	19	16	7.7
7.00	2	56	24	23	7	41	3	48	43	-	5	36	4	16	7.4
8.00	3	0	21	23	11	24	3	48	57	-	5	12	45	16	7.2
9.00	3	4	17	23	15	6	3	49	11	-	4	49	22	16	6.9
10.00	3	8	14	23	18	48	3	49	26	-	4	25	55	16	6.7
11.00	3	12	11	23	22	29	3	49	41	-	4	2	24	16	6.4
12.00	3	16	7	23	26	10	3	49	57	-	3	38	51	16	6.1
13.00	3	20	4	23	29	51	3	50	13	-	3	15	15	16	5.9
14.00	3	24	0	23	33	31	3	50	29	-	2	51	37	16	5.6
15.00	3	27	57	23	37	11	3	50	45	-	2	27	57	16	5.4
16.00	3	31	53	23	40	51	3	51	2	-	2	4	16	16	5.1
17.00	3	35	50	23	44	31	3	51	19	-	1	40	33	16	4.9
18.00	3	39	46	23	48	10	3	51	36	-	1	16	50	16	4.6
19.00	3	43	43	23	51	49	3	51	53	-	0	53	7	16	4.3
20.00	3	47	40	23	55	28	3	52	11	-	0	29	24	16	4.1
21.00	3	51	36	23	59	7	3	52	29	-	0	5	41	16	3.8
22.00	3	55	33	0	2	45	3	52	47	+	0	18	0	16	3.5
23.00	3	59	29	0	6	24	3	53	5	+	0	41	40	16	3.3
24.00	4	3	26	0	10	3	3	53	23	+	1	5	20	16	3.0
25.00	4	7	22	0	13	41	3	53	41	+	1	28	58	16	2.7
26.00	4	11	19	0	17	19	3	53	59	+	1	52	33	16	2.4
27.00	4	15	15	0	20	58	3	54	17	+	2	16	6	16	2.1
28.00	4	19	12	0	24	36	3	54	35	+	2	39	37	16	1.9
29.00	4	23	9	0	28	15	3	54	53	+	3	3	4	16	1.6
30.00	4	27	5	0	31	53	3	55	11	+	3	26	28	16	1.3
31.00	4	31	2	0	35	32	3	55	29	+	3	49	48	16	1.0

MATAHARI

2019 April

WPM	GST	R.A.	GHA	DEK	SD
h	j m s	j m s	j m s	o ' "	' "
1.00	4 34 58	0 39 10	3 55 47	+ 4 13 4	16 .7
2.00	4 38 55	0 42 49	3 56 5	+ 4 36 15	16 .5
3.00	4 42 51	0 46 28	3 56 23	+ 4 59 21	16 .2
4.00	4 46 48	0 50 7	3 56 40	+ 5 22 22	15 59.9
5.00	4 50 45	0 53 46	3 56 58	+ 5 45 18	15 59.6
6.00	4 54 41	0 57 26	3 57 15	+ 6 8 8	15 59.3
7.00	4 58 38	1 1 5	3 57 32	+ 6 30 51	15 59.1
8.00	5 2 34	1 4 45	3 57 49	+ 6 53 27	15 58.8
9.00	5 6 31	1 8 25	3 58 6	+ 7 15 57	15 58.5
10.00	5 10 27	1 12 5	3 58 22	+ 7 38 19	15 58.3
11.00	5 14 24	1 15 45	3 58 38	+ 8 0 33	15 58.0
12.00	5 18 20	1 19 26	3 58 54	+ 8 22 39	15 57.7
13.00	5 22 17	1 23 7	3 59 10	+ 8 44 36	15 57.5
14.00	5 26 14	1 26 48	3 59 25	+ 9 6 25	15 57.2
15.00	5 30 10	1 30 30	3 59 40	+ 9 28 4	15 56.9
16.00	5 34 7	1 34 11	3 59 55	+ 9 49 34	15 56.7
17.00	5 38 3	1 37 54	4 0 9	+10 10 54	15 56.4
18.00	5 42 0	1 41 36	4 0 23	+10 32 4	15 56.1
19.00	5 45 56	1 45 19	4 0 37	+10 53 3	15 55.9
20.00	5 49 53	1 49 3	4 0 50	+11 13 51	15 55.6
21.00	5 53 49	1 52 46	4 1 3	+11 34 29	15 55.4
22.00	5 57 46	1 56 30	4 1 15	+11 54 54	15 55.1
23.00	6 1 43	2 0 15	4 1 27	+12 15 9	15 54.8
24.00	6 5 39	2 4 0	4 1 39	+12 35 11	15 54.6
25.00	6 9 36	2 7 46	4 1 50	+12 55 0	15 54.3
26.00	6 13 32	2 11 32	4 2 0	+13 14 37	15 54.0
27.00	6 17 29	2 15 18	4 2 10	+13 34 1	15 53.8
28.00	6 21 25	2 19 5	4 2 20	+13 53 12	15 53.5
29.00	6 25 22	2 22 53	4 2 29	+14 12 9	15 53.3
30.00	6 29 18	2 26 41	4 2 37	+14 30 53	15 53.0

MATAHARI

2019

Mei

WPM h	GST			R.A.			GHA			DEK			SD	
	j	m	s	j	m	s	j	m	s	o	'	"	'	"
1.00	6	33	15	2	30	30	4	2	45	+14	49	22	15	52.8
2.00	6	37	12	2	34	19	4	2	52	+15	7	36	15	52.5
3.00	6	41	8	2	38	9	4	2	59	+15	25	35	15	52.3
4.00	6	45	5	2	41	59	4	3	5	+15	43	19	15	52.1
5.00	6	49	1	2	45	50	4	3	11	+16	0	48	15	51.8
6.00	6	52	58	2	49	41	4	3	16	+16	18	0	15	51.6
7.00	6	56	54	2	53	33	4	3	21	+16	34	57	15	51.4
8.00	7	0	51	2	57	26	4	3	25	+16	51	36	15	51.1
9.00	7	4	47	3	1	19	4	3	28	+17	7	59	15	50.9
10.00	7	8	44	3	5	12	4	3	31	+17	24	5	15	50.7
11.00	7	12	41	3	9	6	4	3	34	+17	39	53	15	50.5
12.00	7	16	37	3	13	1	4	3	36	+17	55	23	15	50.3
13.00	7	20	34	3	16	56	4	3	37	+18	10	35	15	50.1
14.00	7	24	30	3	20	52	4	3	38	+18	25	28	15	49.9
15.00	7	28	27	3	24	49	4	3	38	+18	40	3	15	49.7
16.00	7	32	23	3	28	46	4	3	37	+18	54	19	15	49.5
17.00	7	36	20	3	32	43	4	3	36	+19	8	16	15	49.3
18.00	7	40	16	3	36	41	4	3	35	+19	21	53	15	49.1
19.00	7	44	13	3	40	40	4	3	33	+19	35	10	15	48.9
20.00	7	48	10	3	44	39	4	3	30	+19	48	7	15	48.7
21.00	7	52	6	3	48	38	4	3	27	+20	0	44	15	48.5
22.00	7	56	3	3	52	39	4	3	23	+20	13	1	15	48.3
23.00	7	59	59	3	56	39	4	3	19	+20	24	57	15	48.1
24.00	8	3	56	4	0	41	4	3	15	+20	36	32	15	47.9
25.00	8	7	52	4	4	43	4	3	9	+20	47	45	15	47.8
26.00	8	11	49	4	8	45	4	3	3	+20	58	38	15	47.6
27.00	8	15	45	4	12	48	4	2	57	+21	9	8	15	47.4
28.00	8	19	42	4	16	51	4	2	50	+21	19	17	15	47.2
29.00	8	23	39	4	20	55	4	2	43	+21	29	4	15	47.1
30.00	8	27	35	4	24	59	4	2	35	+21	38	29	15	46.9
31.00	8	31	32	4	29	4	4	2	27	+21	47	31	15	46.7

MATAHARI

2019

Jun

WPM h	GST			R.A.			GHA			DEK			SD	
	j	m	s	j	m	s	j	m	s	o	'	"	'	"
1.00	8	35	28	4	33	9	4	2	18	+21	56	10	15	46.6
2.00	8	39	25	4	37	15	4	2	9	+22	4	26	15	46.4
3.00	8	43	21	4	41	21	4	2	0	+22	12	20	15	46.3
4.00	8	47	18	4	45	27	4	1	50	+22	19	50	15	46.2
5.00	8	51	14	4	49	34	4	1	40	+22	26	57	15	46.0
6.00	8	55	11	4	53	41	4	1	29	+22	33	40	15	45.9
7.00	8	59	8	4	57	49	4	1	18	+22	39	59	15	45.8
8.00	9	3	4	5	1	56	4	1	7	+22	45	55	15	45.7
9.00	9	7	1	5	6	4	4	0	56	+22	51	26	15	45.5
10.00	9	10	57	5	10	13	4	0	44	+22	56	34	15	45.4
11.00	9	14	54	5	14	21	4	0	32	+23	1	17	15	45.3
12.00	9	18	50	5	18	30	4	0	20	+23	5	35	15	45.2
13.00	9	22	47	5	22	39	4	0	8	+23	9	29	15	45.1
14.00	9	26	43	5	26	48	3	59	55	+23	12	59	15	45.0
15.00	9	30	40	5	30	57	3	59	43	+23	16	4	15	45.0
16.00	9	34	37	5	35	6	3	59	30	+23	18	45	15	44.9
17.00	9	38	33	5	39	15	3	59	17	+23	21	0	15	44.8
18.00	9	42	30	5	43	25	3	59	5	+23	22	51	15	44.7
19.00	9	46	26	5	47	34	3	58	52	+23	24	18	15	44.6
20.00	9	50	23	5	51	44	3	58	39	+23	25	19	15	44.6
21.00	9	54	19	5	55	53	3	58	26	+23	25	56	15	44.5
22.00	9	58	16	6	0	3	3	58	13	+23	26	8	15	44.4
23.00	10	2	12	6	4	12	3	58	0	+23	25	55	15	44.4
24.00	10	6	9	6	8	22	3	57	47	+23	25	18	15	44.3
25.00	10	10	5	6	12	31	3	57	34	+23	24	15	15	44.2
26.00	10	14	2	6	16	40	3	57	21	+23	22	48	15	44.2
27.00	10	17	59	6	20	50	3	57	8	+23	20	57	15	44.1
28.00	10	21	55	6	24	59	3	56	56	+23	18	40	15	44.1
29.00	10	25	52	6	29	8	3	56	43	+23	15	59	15	44.1
30.00	10	29	48	6	33	17	3	56	31	+23	12	54	15	44.0

MATAHARI

2019

Julai

WPM	GST			R.A.			GHA			DEK			SD	
	h	j	m s	j	m s	j	m s	o	\	"	\	"		
1.00	10	33	45	6	37	25	3	56	19	+23	9	24	15	44.0
2.00	10	37	41	6	41	33	3	56	7	+23	5	30	15	44.0
3.00	10	41	38	6	45	41	3	55	56	+23	1	12	15	44.0
4.00	10	45	34	6	49	49	3	55	45	+22	56	30	15	43.9
5.00	10	49	31	6	53	57	3	55	34	+22	51	23	15	43.9
6.00	10	53	28	6	58	4	3	55	23	+22	45	53	15	43.9
7.00	10	57	24	7	2	11	3	55	13	+22	39	59	15	44.0
8.00	11	1	21	7	6	17	3	55	3	+22	33	42	15	44.0
9.00	11	5	17	7	10	23	3	54	54	+22	27	0	15	44.0
10.00	11	9	14	7	14	29	3	54	45	+22	19	56	15	44.0
11.00	11	13	10	7	18	34	3	54	36	+22	12	29	15	44.0
12.00	11	17	7	7	22	39	3	54	28	+22	4	38	15	44.1
13.00	11	21	3	7	26	43	3	54	20	+21	56	25	15	44.1
14.00	11	25	0	7	30	46	3	54	13	+21	47	50	15	44.1
15.00	11	28	57	7	34	50	3	54	6	+21	38	52	15	44.2
16.00	11	32	53	7	38	52	3	54	0	+21	29	32	15	44.2
17.00	11	36	50	7	42	55	3	53	54	+21	19	50	15	44.3
18.00	11	40	46	7	46	56	3	53	49	+21	9	46	15	44.3
19.00	11	44	43	7	50	58	3	53	45	+20	59	21	15	44.4
20.00	11	48	39	7	54	58	3	53	41	+20	48	35	15	44.4
21.00	11	52	36	7	58	58	3	53	37	+20	37	28	15	44.5
22.00	11	56	32	8	2	58	3	53	34	+20	25	59	15	44.6
23.00	12	0	29	8	6	57	3	53	31	+20	14	11	15	44.6
24.00	12	4	26	8	10	55	3	53	30	+20	2	2	15	44.7
25.00	12	8	22	8	14	53	3	53	28	+19	49	32	15	44.8
26.00	12	12	19	8	18	51	3	53	27	+19	36	43	15	44.8
27.00	12	16	15	8	22	47	3	53	27	+19	23	35	15	44.9
28.00	12	20	12	8	26	44	3	53	28	+19	10	7	15	45.0
29.00	12	24	8	8	30	39	3	53	29	+18	56	20	15	45.1
30.00	12	28	5	8	34	34	3	53	30	+18	42	15	15	45.2
31.00	12	32	1	8	38	29	3	53	32	+18	27	51	15	45.3

MATAHARI

2019

Ogos

WPM h	GST			R.A.			GHA			DEK			SD	
	j	m	s	j	m	s	j	m	s	o	'	"	'	"
1.00	12	35	58	8	42	22	3	53	35	+18	13	8	15	45.4
2.00	12	39	55	8	46	16	3	53	38	+17	58	8	15	45.5
3.00	12	43	51	8	50	8	3	53	42	+17	42	51	15	45.7
4.00	12	47	48	8	54	0	3	53	47	+17	27	16	15	45.8
5.00	12	51	44	8	57	52	3	53	52	+17	11	24	15	45.9
6.00	12	55	41	9	1	42	3	53	58	+16	55	15	15	46.1
7.00	12	59	37	9	5	32	3	54	4	+16	38	50	15	46.2
8.00	13	3	34	9	9	22	3	54	11	+16	22	9	15	46.3
9.00	13	7	30	9	13	11	3	54	19	+16	5	12	15	46.5
10.00	13	11	27	9	16	59	3	54	27	+15	48	0	15	46.6
11.00	13	15	24	9	20	47	3	54	36	+15	30	32	15	46.8
12.00	13	19	20	9	24	34	3	54	46	+15	12	50	15	47.0
13.00	13	23	17	9	28	20	3	54	56	+14	54	54	15	47.1
14.00	13	27	13	9	32	6	3	55	6	+14	36	43	15	47.3
15.00	13	31	10	9	35	52	3	55	18	+14	18	18	15	47.4
16.00	13	35	6	9	39	37	3	55	29	+13	59	40	15	47.6
17.00	13	39	3	9	43	21	3	55	41	+13	40	48	15	47.8
18.00	13	42	59	9	47	5	3	55	54	+13	21	43	15	48.0
19.00	13	46	56	9	50	48	3	56	7	+13	2	26	15	48.1
20.00	13	50	53	9	54	31	3	56	21	+12	42	56	15	48.3
21.00	13	54	49	9	58	13	3	56	35	+12	23	14	15	48.5
22.00	13	58	46	10	1	55	3	56	50	+12	3	21	15	48.7
23.00	14	2	42	10	5	37	3	57	5	+11	43	15	15	48.9
24.00	14	6	39	10	9	18	3	57	21	+11	22	59	15	49.1
25.00	14	10	35	10	12	58	3	57	37	+11	2	32	15	49.2
26.00	14	14	32	10	16	38	3	57	53	+10	41	54	15	49.4
27.00	14	18	28	10	20	18	3	58	10	+10	21	6	15	49.6
28.00	14	22	25	10	23	58	3	58	27	+10	0	8	15	49.8
29.00	14	26	22	10	27	37	3	58	44	+9	39	0	15	50.1
30.00	14	30	18	10	31	15	3	59	2	+9	17	44	15	50.3
31.00	14	34	15	10	34	54	3	59	20	+8	56	18	15	50.5

MATAHARI

2019

September

WPM	GST			R.A.			GHA			DEK			SD		
h	j	m	s	j	m	s	j	m	s	o	'	"	'	"	
1.00	14	38	11	10	38	32	3	59	39	+	8	34	43	15	50.7
2.00	14	42	8	10	42	10	3	59	58	+	8	13	1	15	50.9
3.00	14	46	4	10	45	47	4	0	17	+	7	51	10	15	51.2
4.00	14	50	1	10	49	24	4	0	36	+	7	29	12	15	51.4
5.00	14	53	57	10	53	1	4	0	56	+	7	7	7	15	51.6
6.00	14	57	54	10	56	37	4	1	16	+	6	44	55	15	51.9
7.00	15	1	51	11	0	14	4	1	36	+	6	22	36	15	52.1
8.00	15	5	47	11	3	50	4	1	57	+	6	0	11	15	52.3
9.00	15	9	44	11	7	26	4	2	17	+	5	37	41	15	52.6
10.00	15	13	40	11	11	2	4	2	38	+	5	15	5	15	52.8
11.00	15	17	37	11	14	37	4	2	59	+	4	52	23	15	53.1
12.00	15	21	33	11	18	13	4	3	20	+	4	29	37	15	53.3
13.00	15	25	30	11	21	48	4	3	42	+	4	6	46	15	53.6
14.00	15	29	26	11	25	23	4	4	3	+	3	43	50	15	53.8
15.00	15	33	23	11	28	58	4	4	24	+	3	20	51	15	54.1
16.00	15	37	20	11	32	33	4	4	46	+	2	57	48	15	54.4
17.00	15	41	16	11	36	8	4	5	7	+	2	34	42	15	54.6
18.00	15	45	13	11	39	43	4	5	29	+	2	11	32	15	54.9
19.00	15	49	9	11	43	18	4	5	50	+	1	48	20	15	55.1
20.00	15	53	6	11	46	53	4	6	12	+	1	25	6	15	55.4
21.00	15	57	2	11	50	29	4	6	33	+	1	1	49	15	55.6
22.00	16	0	59	11	54	4	4	6	55	+	0	38	31	15	55.9
23.00	16	4	56	11	57	39	4	7	16	+	0	15	11	15	56.1
24.00	16	8	52	12	1	15	4	7	37	-	0	8	9	15	56.4
25.00	16	12	49	12	4	50	4	7	58	-	0	31	30	15	56.7
26.00	16	16	45	12	8	26	4	8	19	-	0	54	52	15	56.9
27.00	16	20	42	12	12	2	4	8	39	-	1	18	15	15	57.2
28.00	16	24	38	12	15	38	4	9	0	-	1	41	37	15	57.5
29.00	16	28	35	12	19	15	4	9	20	-	2	4	58	15	57.7
30.00	16	32	31	12	22	51	4	9	40	-	2	28	18	15	58.0

MATAHARI

2019

Oktober

WPM h	GST			R.A.			GHA			DEK			SD		
	j	m	s	j	m	s	j	m	s	o	'	"	'	"	
1.00	16	36	28	12	26	28	4	9	59	-	2	51	37	15	58.3
2.00	16	40	25	12	30	5	4	10	19	-	3	14	54	15	58.6
3.00	16	44	21	12	33	43	4	10	38	-	3	38	9	15	58.8
4.00	16	48	18	12	37	20	4	10	57	-	4	1	21	15	59.1
5.00	16	52	14	12	40	58	4	11	15	-	4	24	31	15	59.4
6.00	16	56	11	12	44	37	4	11	34	-	4	47	37	15	59.7
7.00	17	0	7	12	48	15	4	11	52	-	5	10	39	15	60.0
8.00	17	4	4	12	51	54	4	12	9	-	5	33	38	16	.3
9.00	17	8	0	12	55	34	4	12	26	-	5	56	32	16	.5
10.00	17	11	57	12	59	14	4	12	43	-	6	19	21	16	.8
11.00	17	15	54	13	2	54	4	12	59	-	6	42	6	16	1.1
12.00	17	19	50	13	6	35	4	13	15	-	7	4	44	16	1.4
13.00	17	23	47	13	10	16	4	13	30	-	7	27	18	16	1.7
14.00	17	27	43	13	13	58	4	13	45	-	7	49	44	16	1.9
15.00	17	31	40	13	17	40	4	13	59	-	8	12	5	16	2.2
16.00	17	35	36	13	21	23	4	14	13	-	8	34	18	16	2.5
17.00	17	39	33	13	25	6	4	14	26	-	8	56	25	16	2.8
18.00	17	43	29	13	28	50	4	14	39	-	9	18	23	16	3.0
19.00	17	47	26	13	32	35	4	14	51	-	9	40	14	16	3.3
20.00	17	51	23	13	36	20	4	15	2	-	10	1	56	16	3.6
21.00	17	55	19	13	40	6	4	15	13	-	10	23	30	16	3.8
22.00	17	59	16	13	43	52	4	15	23	-	10	44	55	16	4.1
23.00	18	3	12	13	47	40	4	15	32	-	11	6	10	16	4.4
24.00	18	7	9	13	51	28	4	15	41	-	11	27	15	16	4.6
25.00	18	11	5	13	55	16	4	15	49	-	11	48	10	16	4.9
26.00	18	15	2	13	59	6	4	15	56	-	12	8	55	16	5.1
27.00	18	18	58	14	2	56	4	16	2	-	12	29	28	16	5.4
28.00	18	22	55	14	6	46	4	16	8	-	12	49	50	16	5.7
29.00	18	26	52	14	10	38	4	16	13	-	13	10	0	16	5.9
30.00	18	30	48	14	14	30	4	16	17	-	13	29	58	16	6.2
31.00	18	34	45	14	18	23	4	16	21	-	13	49	42	16	6.4

MATAHARI

2019

November

WPM	GST			R.A.			GHA			DEK			SD	
h	j	m	s	j	m	s	j	m	s	o	'	"	'	"
1.00	18	38	41	14	22	17	4	16	23	-14	9	14	16	6.7
2.00	18	42	38	14	26	12	4	16	25	-14	28	32	16	7.0
3.00	18	46	34	14	30	7	4	16	27	-14	47	36	16	7.2
4.00	18	50	31	14	34	4	4	16	27	-15	6	25	16	7.5
5.00	18	54	27	14	38	1	4	16	26	-15	25	0	16	7.7
6.00	18	58	24	14	41	58	4	16	25	-15	43	19	16	8.0
7.00	19	2	21	14	45	57	4	16	23	-16	1	23	16	8.2
8.00	19	6	17	14	49	56	4	16	20	-16	19	10	16	8.5
9.00	19	10	14	14	53	57	4	16	17	-16	36	41	16	8.7
10.00	19	14	10	14	57	58	4	16	12	-16	53	56	16	9.0
11.00	19	18	7	15	2	0	4	16	7	-17	10	52	16	9.2
12.00	19	22	3	15	6	3	4	16	0	-17	27	32	16	9.4
13.00	19	26	0	15	10	6	4	15	53	-17	43	53	16	9.7
14.00	19	29	56	15	14	11	4	15	45	-17	59	55	16	9.9
15.00	19	33	53	15	18	16	4	15	37	-18	15	39	16	10.1
16.00	19	37	50	15	22	22	4	15	27	-18	31	4	16	10.3
17.00	19	41	46	15	26	29	4	15	17	-18	46	9	16	10.5
18.00	19	45	43	15	30	37	4	15	5	-19	0	55	16	10.7
19.00	19	49	39	15	34	46	4	14	53	-19	15	20	16	10.9
20.00	19	53	36	15	38	55	4	14	40	-19	29	24	16	11.1
21.00	19	57	32	15	43	6	4	14	26	-19	43	8	16	11.3
22.00	20	1	29	15	47	17	4	14	11	-19	56	30	16	11.5
23.00	20	5	25	15	51	29	4	13	56	-20	9	31	16	11.7
24.00	20	9	22	15	55	42	4	13	39	-20	22	9	16	11.9
25.00	20	13	19	15	59	56	4	13	22	-20	34	25	16	12.1
26.00	20	17	15	16	4	10	4	13	4	-20	46	18	16	12.3
27.00	20	21	12	16	8	25	4	12	46	-20	57	47	16	12.5
28.00	20	25	8	16	12	41	4	12	26	-21	8	54	16	12.6
29.00	20	29	5	16	16	58	4	12	6	-21	19	36	16	12.8
30.00	20	33	1	16	21	16	4	11	45	-21	29	54	16	13.0

MATAHARI

2019 Desember

WPM h	GST			R.A.			GHA			DEK			SD	
	j	m	s	j	m	s	j	m	s	o	`	"	`	"
1.00	20	36	58	16	25	34	4	11	24	-21	39	48	16	13.2
2.00	20	40	54	16	29	52	4	11	2	-21	49	17	16	13.3
3.00	20	44	51	16	34	12	4	10	39	-21	58	20	16	13.5
4.00	20	48	48	16	38	32	4	10	16	-22	6	59	16	13.6
5.00	20	52	44	16	42	52	4	9	52	-22	15	11	16	13.8
6.00	20	56	41	16	47	13	4	9	27	-22	22	58	16	13.9
7.00	21	0	37	16	51	35	4	9	2	-22	30	18	16	14.1
8.00	21	4	34	16	55	57	4	8	36	-22	37	13	16	14.2
9.00	21	8	30	17	0	19	4	8	10	-22	43	40	16	14.4
10.00	21	12	27	17	4	42	4	7	44	-22	49	41	16	14.5
11.00	21	16	23	17	9	6	4	7	17	-22	55	15	16	14.6
12.00	21	20	20	17	13	30	4	6	50	-23	0	21	16	14.7
13.00	21	24	17	17	17	54	4	6	22	-23	5	0	16	14.9
14.00	21	28	13	17	22	19	4	5	54	-23	9	12	16	15.0
15.00	21	32	10	17	26	44	4	5	25	-23	12	57	16	15.1
16.00	21	36	6	17	31	9	4	4	57	-23	16	13	16	15.2
17.00	21	40	3	17	35	34	4	4	28	-23	19	2	16	15.3
18.00	21	43	59	17	40	0	4	3	59	-23	21	23	16	15.3
19.00	21	47	56	17	44	26	4	3	29	-23	23	16	16	15.4
20.00	21	51	52	17	48	52	4	3	0	-23	24	41	16	15.5
21.00	21	55	49	17	53	19	4	2	30	-23	25	37	16	15.6
22.00	21	59	46	17	57	45	4	2	0	-23	26	6	16	15.6
23.00	22	3	42	18	2	11	4	1	30	-23	26	6	16	15.7
24.00	22	7	39	18	6	38	4	1	0	-23	25	38	16	15.7
25.00	22	11	35	18	11	4	4	0	30	-23	24	41	16	15.8
26.00	22	15	32	18	15	31	4	0	0	-23	23	17	16	15.8
27.00	22	19	28	18	19	57	3	59	31	-23	21	24	16	15.9
28.00	22	23	25	18	24	23	3	59	1	-23	19	3	16	15.9
29.00	22	27	21	18	28	50	3	58	31	-23	16	14	16	16.0
30.00	22	31	18	18	33	15	3	58	2	-23	12	57	16	16.0
31.00	22	35	14	18	37	41	3	57	33	-23	9	12	16	16.0

MATAHARI

2019 Januari

WPM h	GST			R.A.			GHA			DEK			SD	
	j	m	s	j	m	s	j	m	s	o	`	"	`	"
1.00	22	39	11	18	42	7	3	57	4	-23	4	59	16	16.1