

Lampiran Hasil Penelitian Kelas VIII A Nomor Soal 1-5

No	1						2						3						4						5					
	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket
1	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
2	1	1	0	0	0	TP	0	1	0	1	1	M	0	1	0	1	0	M	0	1	1	0	0	M	0	0	0	0	0	TP
3	0	1	0	1	1	M	0	1	0	0	1	M	1	1	0	1	1	M	1	1	0	1	1	M	0	0	0	0	0	TP
4	0	1	1	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
5	1	1	1	1	1	P	1	1	1	1	1	P	1	1	1	1	1	P	0	1	1	1	1	M	1	1	0	1	1	M
6	1	0	0	0	0	TP	0	0	0	0	0	TP	0	1	0	1	0	M	0	0	0	0	1	M	0	0	0	0	0	TP
7	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
8	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
9	1	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	0	1	1	1	1	M	1	1	0	1	1	M
10	0	1	0	0	0	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M	1	1	0	1	1	M
11	0	1	0	0	0	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M	1	1	0	1	1	M
12	0	1	0	0	0	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M	1	1	0	1	1	M
13	0	1	0	0	0	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M	1	1	0	1	1	M
14	1	1	0	1	1	M	1	1	1	1	0	TP	1	1	1	1	1	P	1	1	0	1	1	M	1	1	0	1	1	M
15	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M	0	1	0	1	1	M
16	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
17	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	0	0	0	0	TP
18	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	1	0	0	0	0	TP
19	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
20	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P
21	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	1	1	0	0	0	M
22	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	0	1	0	1	1	M
23	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	0	1	0	1	1	M
24	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
25	1	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
26	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M
27	1	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
28	1	1	0	1	0	M	0	1	1	1	1	M	1	1	1	1	1	P	0	1	1	1	0	M	1	1	1	1	1	P
29	1	1	1	1	1	P	1	1	1	1	1	P	1	1	1	1	1	P	1	1	1	1	1	P	1	1	1	1	1	P
30	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
31	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M
32	1	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P

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No	6						7						8						9						10					
	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket
1	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
2	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	0	0	0	0	TP	1	1	0	0	1	M
3	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
4	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
5	0	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	1	1	0	1	1	M	1	1	0	1	1	M
6	1	0	0	1	1	M	0	1	0	0	0	M	0	0	0	0	0	TP	0	0	0	0	0	TP	0	1	0	0	0	M
7	0	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	1	1	0	1	1	M	1	1	0	1	1	M
8	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
9	1	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M
10	0	0	1	0	0	TP	1	1	1	1	1	P	0	0	1	0	0	TP	0	1	1	1	1	M	0	1	0	0	0	M
11	0	0	1	0	0	TP	1	1	1	1	1	P	0	0	1	0	0	TP	0	1	1	1	1	M	0	1	0	0	0	M
12	0	1	1	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
13	1	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M
14	1	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M
15	0	1	1	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	0	1	1	0	1	M	0	1	1	1	1	M
16	0	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	0	1	1	1	1	M	1	1	0	1	1	M
17	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
18	1	0	1	0	0	TP	0	0	0	0	0	TP	0	0	1	0	0	TP	0	0	0	0	0	TP	0	0	1	0	0	TP
19	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M
20	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
21	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M
22	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M
23	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
24	0	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M
25	0	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M
26	1	1	1	1	1	P	1	1	1	1	1	P	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
27	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
28	0	0	0	0	1	M	1	1	1	1	1	P	1	0	0	0	0	TP	0	0	0	0	1	M	0	0	0	0	1	M
29	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	1	0	0	0	0	TP	0	0	0	1	0	M
30	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
31	1	1	1	1	1	P	1	1	0	1	0	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
32	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P

Lampiran Hasil Penelitian Kelas VIII A Nomor Soal 11-15

No	11						12						13						14						15					
	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket
1	0	1	1	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
2	0	0	0	0	0	TP	0	0	0	1	1	M	0	1	0	1	1	M	0	0	0	1	1	M	1	1	0	1	1	M
3	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
4	0	1	1	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M
5	0	1	1	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
6	0	0	0	0	0	TP	0	0	0	0	0	TP	0	0	0	0	0	TP	1	0	0	0	0	TP	0	0	0	0	0	TP
7	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
8	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
9	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P
10	0	1	0	0	0	M	0	0	1	0	0	TP	0	1	0	0	0	M	0	0	1	0	1	M	1	1	1	1	1	P
11	0	1	0	0	0	M	0	0	1	0	0	TP	0	1	0	0	0	M	0	0	1	0	1	M	1	1	1	1	1	P
12	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P
13	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P
14	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
15	0	1	1	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P
16	0	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	0	1	1	1	1	M	1	1	0	1	1	M
17	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M
18	0	0	1	0	0	TP	0	0	1	0	0	TP	0	1	1	1	1	M	1	1	0	1	1	TP	1	0	1	0	0	TP
19	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
20	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
21	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
22	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
23	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
24	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
25	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
26	0	1	0	1	1	M	1	1	1	1	1	P	1	0	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
27	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
28	0	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	0	0	0	1	1	M	1	1	1	1	1	P
29	0	0	0	0	0	TP	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P
30	0	1	1	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
31	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
32	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M

Lampiran Hasil Penelitian Kelas VIII A Nomor Soal 16-20

No	16						17						18						19						20					
	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket
1	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
2	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	1	1	0	0	0	TP	1	1	0	1	1	M
3	0	1	0	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	1	1	0	1	1	M
4	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
5	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
6	1	1	1	1	1	P	1	1	0	1	1	M	0	0	0	0	0	TP	0	1	0	1	1	M	1	1	0	1	1	M
7	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
8	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
9	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
10	0	1	0	1	1	M	1	1	0	1	1	M	0	0	0	0	0	TP	1	1	1	1	1	P	0	1	0	1	1	M
11	0	1	0	1	1	M	1	1	0	1	1	M	0	0	0	0	0	TP	1	1	1	1	1	P	0	1	0	1	1	M
12	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
13	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
14	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	1	0	0	0	0	TP
15	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	1	0	0	0	0	TP
16	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
17	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
18	0	0	1	0	0	TP	0	0	0	1	1	M	0	0	0	0	0	TP	1	0	0	0	0	TP	0	0	0	0	0	TP
19	1	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M
20	1	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M
21	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
22	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
23	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
24	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
25	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
26	1	1	1	1	1	P	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
27	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
28	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M
29	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
30	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
31	0	1	0	1	0	M	0	1	0	1	1	M	0	1	0	1	0	M	0	1	0	1	1	M	1	1	0	1	1	M
32	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M

Lampiran Hasil Analisis Pemahaman Konsep Siswa Per Nomer Soal kelas VIII A

Nomer Soal	Persentase Paham Konsep	Persentase Miskonsepsi	Persentase Paham Konsep	Keterangan		
				P (Paham Konsep)	M (Miskonsepsi)	TP (Tidak Paham Konsep)
1	19%	75%	6%	6	24	2
2	25%	69%	6%	9	22	2
3	47%	53%	0%	15	17	0
4	9%	91%	0%	3	29	0
5	12%	72%	16%	4	23	5
6	6%	85%	9%	2	27	3
7	44%	53%	3%	14	17	1
8	31%	53%	16%	10	17	5
9	6%	85%	9%	2	27	3
10	6%	91%	3%	2	29	1
11	3%	85%	12%	1	27	4
12	16%	81%	13%	5	26	4
13	3%	94%	3%	1	30	1
14	6%	88%	6%	2	28	2
15	31%	34%	3%	10	20	1
16	12%	85%	3%	4	27	1
17	3%	97%	0%	1	31	0
18	3%	95%	2%	1	27	4
19	37%	57%	6%	12	18	2
20	0%	91%	9%	0	29	3
Rata-rata	15,95%	76,70%	7,35%			

Lampiran Hasil Penelitian Kelas VIII B Nomor Soal 1-5

No	1						2						3						4						5					
	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket
1	1	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M
2	1	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
3	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
4	1	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M
5	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
6	1	0	1	1	1	TP	0	1	0	1	1	M	1	1	1	0	1	TP	1	1	0	1	1	M	0	1	1	1	1	M
7	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M	0	1	0	1	1	M
8	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
9	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
10	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	1	1	0	1	1	M
11	1	0	0	0	0	TP	0	1	0	1	0	M	1	1	1	1	1	P	0	0	0	1	1	M	1	1	0	1	1	M
12	0	0	0	0	1	M	0	0	0	1	1	M	1	0	0	1	1	M	0	1	1	1	1	M	1	0	0	0	0	TP
13	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
14	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	0	0	1	1	M
15	1	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M	1	0	0	0	0	TP
16	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
17	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M
18	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	1	1	0	1	1	M
19	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	0	0	M	0	1	1	1	1	M
20	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
21	1	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	1	0	0	1	1	TP	1	0	1	1	1	TP
22	1	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
23	0	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P
24	1	1	0	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
25	1	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
26	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
27	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	0	0	0	0	TP
28	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	0	0	0	0	TP
29	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	1	1	0	1	1	M
30	1	1	1	1	1	P	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P

Lampiran Hasil Penelitian Kelas VIII B Nomor Soal 6-10

No	6						7						8						9						10					
	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket
1	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P
2	0	1	1	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
3	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
4	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
5	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
6	0	1	1	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	0	M	0	1	0	0	1	M
7	0	1	1	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	1	0	1	M
8	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
9	0	1	1	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
10	0	1	1	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
11	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	0	1	0	0	TP	0	1	0	0	0	M
12	0	0	0	1	1	M	0	1	0	1	1	M	0	1	1	0	1	M	0	1	0	1	1	M	0	0	1	0	0	M
13	0	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P
14	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
15	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
16	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
17	1	1	1	1	1	P	1	1	1	1	1	P	1	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
18	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
19	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M	0	0	0	1	1	M	0	1	1	1	1	M
20	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
21	1	1	1	1	0	TP	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
22	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
23	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
24	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M	1	1	0	1	1	M
25	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
26	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	0	0	M	1	1	0	1	1	M	0	1	1	1	1	M
27	0	1	1	1	1	M	1	1	1	1	1	P	0	0	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
28	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	0	1	1	1	M
29	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M	0	1	1	1	1	M
30	1	1	1	1	1	P	1	1	1	1	1	P	0	1	1	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P

Lampiran Hasil Penelitian Kelas VIII B Nomor Soal 11-15

No	11						12						13						14						15					
	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket
1	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
2	1	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
3	1	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M
4	0	1	1	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P
5	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
6	0	1	0	1	1	M	0	1	1	0	0	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
7	0	1	0	1	1	M	0	1	0	0	0	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
8	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P
9	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
10	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
11	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
12	0	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	0	0	1	1	1	M	0	1	0	1	1	M
13	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
14	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
15	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
16	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	0	0	1	1	M
17	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
18	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
19	0	0	0	1	0	M	0	1	0	1	0	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P
20	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M
21	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
22	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
23	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
24	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
25	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
26	0	1	0	0	0	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
27	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
28	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
29	1	1	0	1	0	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
30	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M

Lampiran Hasil Penelitian Kelas VIII B Nomor Soal 16-20

No	16						17						18						19						20					
	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket
1	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
2	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P
3	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
4	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
5	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M
6	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	0	M
7	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	0	0	0	1	M
8	1	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M
9	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
10	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
11	0	1	1	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M
12	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	0	1	M
13	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
14	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
15	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
16	1	1	0	1	1	M	0	1	0	1	1	M	0	0	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
17	0	1	1	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
18	1	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
19	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M
20	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
21	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
22	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
23	1	1	1	1	1	P	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M
24	1	1	1	1	1	P	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M
25	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
26	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	0	0	0	0	TP	0	1	0	1	1	M
27	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
28	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
29	1	1	1	1	1	P	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
30	1	1	1	1	1	P	1	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M

Lampiran Hasil Analisis Pemahaman Konsep Siswa Per Nomer Soal kelas VIII B

Nomer Soal	Persentase Paham Konsep	Persentase Miskonsepsi	Persentase Paham Konsep	Keterangan		
				P (Paham Konsep)	M (Miskonsepsi)	TP (Tidak Paham Konsep)
1	10%	83%	7%	3	25	2
2	20%	80%	0%	6	24	0
3	30%	67%	3%	9	20	1
4	7%	90%	3%	2	27	1
5	10%	73%	17%	3	22	5
6	20%	77%	3%	6	23	1
7	17%	83%	0%	5	25	0
8	7%	93%	0%	2	28	0
9	0%	97%	3%	0	29	1
10	20%	80%	0%	6	24	0
11	7%	93%	0%	2	28	0
12	3%	97%	0%	1	29	0
13	3%	97%	0%	1	29	0
14	7%	93%	0%	2	28	0
15	27%	73%	0%	8	22	0
16	13%	87%	0%	4	26	0
17	3%	97%	0%	1	29	0
18	3%	97%	0%	1	29	0
19	17%	80%	3%	5	24	1
20	3%	97%	0%	1	29	0
Rata-rata	11,35%	86,7%	1,95%			

Lampiran Hasil Penelitian Kelas VIII C Nomor Soal 1-5

No	1						2						3						4						5					
	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket
1	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
2	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M
3	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
4	1	1	1	1	1	P	0	1	0	1	1	M	0	0	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
5	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
6	0	0	1	0	0	TP	1	1	0	1	1	M	0	0	0	1	0	M	0	0	0	0	0	TP	1	1	1	1	1	P
7	1	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	1	1	1	1	1	P	1	1	1	1	1	P
8	0	0	0	1	1	M	0	1	0	1	1	M	0	0	0	1	0	M	0	1	0	1	1	M	1	1	0	1	1	M
9	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
10	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
11	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P
12	1	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
13	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P	0	0	0	1	1	M	0	0	0	1	1	M
14	1	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
15	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M
16	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M
17	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M
18	1	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	1	1	0	1	1	M	1	1	0	1	1	M
19	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M
20	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
21	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M
22	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M
23	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	0	1	0	1	1	M
24	1	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	0	0	0	0	TP	0	0	1	0	0	TP
25	1	0	0	0	0	TP	0	1	1	1	1	M	0	0	0	1	0	M	1	1	1	1	1	P	1	1	0	1	1	M
26	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M
27	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	1	1	0	1	1	M
28	1	1	1	1	1	P	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P
29	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	0	M	0	0	0	1	0	M	1	0	0	0	0	TP
30	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	0	0	0	0	TP
31	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
32	1	1	1	1	1	P	0	1	1	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	0	0	0	0	0	TP

Lampiran Hasil Penelitian Kelas VIII C Nomor Soal 6-10

No	6						7						8						9						10					
	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket
1	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
2	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
3	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
4	0	1	1	1	1	M	0	1	0	1	0	M	0	1	0	1	1	M	0	1	0	1	0	M	1	1	0	1	1	M
5	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
6	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	0	0	0	0	TP	1	0	0	1	1	M
7	0	1	1	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
8	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
9	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
10	0	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
11	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
12	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M
13	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
14	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
15	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
16	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
17	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
18	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M
19	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M
20	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
21	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M	0	1	1	1	1	M
22	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
23	0	1	1	1	1	M	0	1	0	1	0	M	1	1	1	1	0	TP	0	1	0	1	1	M	1	1	0	1	1	M
24	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M
25	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
26	1	1	1	1	1	P	1	1	1	1	1	P	0	1	1	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M
27	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
28	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	0	0	M
29	1	0	0	1	0	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
30	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M
31	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
32	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	0	0	0	1	1	M	0	1	1	1	1	M

Lampiran Hasil Penelitian Kelas VIII C Nomor Soal 11-15

No	11						12						13						14						15					
	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket
1	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M
2	0	1	0	1	1	M	0	1	0	0	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
3	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
4	0	1	1	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	0	M	0	0	1	1	1	M
5	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
6	0	0	1	0	0	TP	0	0	1	0	0	TP	0	0	1	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
7	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
8	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
9	0	1	1	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M
10	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
11	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
12	0	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
13	0	1	0	1	0	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
14	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
15	0	1	1	1	1	M	0	0	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
16	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
17	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M
18	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
19	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
20	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
21	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
22	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
23	0	1	1	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	0	1	0	1	0	M
24	0	1	1	1	1	M	0	1	0	0	0	M	0	1	0	0	0	M	0	1	1	1	1	M	0	0	0	0	0	TP
25	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
26	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M
27	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P
28	0	0	1	0	0	TP	0	0	1	0	0	TP	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
29	0	0	1	0	0	TP	0	0	1	0	0	TP	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
30	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
31	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
32	0	1	0	0	0	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	0	M

Lampiran Hasil Penelitian Kelas VIII C Nomor Soal 16-20

No	16						17						18						19						20					
	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket
1	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
2	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
3	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
4	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	0	M	0	1	1	1	1	M	0	1	0	1	0	M
5	0	1	0	1	1	M	0	1	0	0	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
6	0	0	0	0	0	TP	1	1	0	1	1	M	0	1	0	1	1	M	0	0	0	0	0	TP	0	1	0	1	1	M
7	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	1	1	0	1	1	M
8	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
9	1	1	1	1	1	P	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
10	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
11	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
12	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
13	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
14	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
15	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P
16	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
17	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
18	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	1	1	0	1	1	M
19	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
20	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
21	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
22	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
23	1	1	0	1	0	M	1	1	0	1	0	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
24	0	1	1	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	0	0	0	0	0	TP	0	1	0	1	1	M
25	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	0	1	M
26	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
27	1	1	1	1	1	P	1	1	1	1	1	P	1	1	1	1	1	P	1	1	0	1	1	M	1	1	0	1	1	M
28	1	1	1	1	1	P	1	1	1	1	1	P	1	1	1	1	1	P	1	1	0	1	1	M	1	1	0	1	1	M
29	0	0	0	0	0	TP	1	1	1	1	1	P	1	1	1	1	1	P	1	1	0	1	1	M	1	1	0	1	1	M
30	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
31	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P
32	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M	0	0	1	0	0	M	0	1	0	1	1	M

Lampiran Hasil Analisis Pemahaman Konsep Siswa Per Nomer Soal kelas VIII C

Nomer Soal	Persentase Paham Konsep	Persentase Miskonsepsi	Persentase Paham Konsep	Keterangan		
				P (Paham Konsep)	M (Miskonsepsi)	TP (Tidak Paham Konsep)
1	31%	63%	6%	10	20	2
2	16%	84%	0%	5	27	0
3	41%	59%	0%	13	19	0
4	12%	82%	6%	4	26	2
5	12%	76%	12%	4	24	4
6	12%	88%	0%	4	28	0
7	12%	88%	0%	4	28	0
8	6%	91%	3%	2	29	1
9	3%	94%	3%	1	30	1
10	0%	100%	0%	0	32	0
11	0%	91%	9%	0	29	3
12	9%	82%	9%	3	24	3
13	0%	100%	0%	0	32	0
14	9%	91%	0%	3	29	0
15	12%	85%	3%	4	27	1
16	16%	78%	6%	5	25	2
17	12%	88%	0%	4	28	0
18	19%	81%	0%	6	26	0
19	0%	94%	6%	0	30	2
20	9%	91%	0%	3	29	0
Rata-rata	11,55%	85,30%	3,15%			

Lampiran Hasil Penelitian Kelas VIII I Nomor Soal 1-5

No	1						2						3						4						5					
	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket
1	1	1	1	1	1	P	0	1	1	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	1	1	1	1	1	P
2	1	1	1	1	1	P	1	1	1	1	1	P	1	1	1	1	1	P	0	1	1	1	1	M	1	1	1	1	1	P
3	1	1	0	0	0	TP	0	1	0	1	0	M	1	1	1	1	1	P	1	1	1	1	1	P	1	1	0	1	1	M
4	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
5	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
6	1	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P
7	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
8	1	1	1	1	1	P	0	0	0	0	1	M	1	0	0	1	0	M	0	1	1	1	1	M	0	0	0	0	0	TP
9	1	1	1	1	1	P	1	1	1	1	1	P	1	1	1	1	1	P	0	1	1	1	1	M	0	1	0	1	1	M
10	1	1	0	1	1	M	1	1	0	1	1	M	1	1	0	0	0	TP	1	0	1	0	1	TP	0	1	1	1	1	M
11	1	1	1	1	1	P	0	1	1	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	0	1	1	1	1	M
12	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
13	1	1	0	0	0	TP	0	1	0	1	0	M	0	1	0	1	0	M	0	1	0	0	1	M	1	0	0	0	0	TP
14	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
15	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
16	1	1	1	1	1	P	0	1	1	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	0	1	1	1	1	M
17	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
18	1	1	0	0	0	TP	0	1	0	1	0	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
19	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
20	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
21	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
22	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
23	1	1	1	1	1	P	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
24	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P
25	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	0	0	M
26	1	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
27	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
28	1	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M
29	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P
30	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P
31	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M
32	0	1	1	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M

Lampiran Hasil Penelitian Kelas VIII I Nomor Soal 6-10

No	6						7						8						9						10					
	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket
1	1	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M
2	1	1	1	1	1	P	1	1	1	1	1	P	1	1	1	1	1	P	1	0	0	0	0	TP	0	1	0	1	1	M
3	1	0	0	0	0	TP	1	1	1	1	1	P	0	0	1	0	0	TP	1	0	0	0	0	TP	1	0	0	0	0	TP
4	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
5	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	0	1	0	1	1	M
6	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
7	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M
8	1	0	0	0	0	TP	0	0	1	0	0	TP	1	1	0	1	1	M	0	0	0	0	0	TP	0	0	1	0	0	TP
9	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M	1	1	0	1	1	M
10	1	0	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	0	0	1	1	1	M
11	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
12	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
13	1	0	0	0	0	TP	1	1	1	1	1	P	0	1	1	1	1	M	1	0	0	0	0	TP	1	0	0	0	0	TP
14	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
15	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	0	1	0	1	1	M
16	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	0	1	0	1	1	M
17	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
18	1	0	0	0	0	TP	1	1	1	1	1	P	0	1	1	1	1	M	1	0	0	0	0	TP	1	0	0	0	0	TP
19	1	0	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	0	1	1	1	1	M	1	0	1	1	1	TP
20	1	1	1	1	1	P	1	1	1	1	1	P	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
21	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M
22	1	1	1	1	1	P	1	1	1	1	1	P	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
23	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
24	0	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
25	0	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
26	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
27	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
28	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
29	1	1	1	1	1	P	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P
30	1	1	1	1	1	P	1	1	1	1	1	P	1	1	1	1	1	P	1	1	0	1	1	M	1	1	1	1	1	P
31	1	1	1	1	1	P	1	1	1	1	1	P	0	1	1	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
32	1	1	1	1	1	P	1	1	1	1	1	P	1	1	1	1	1	P	1	1	1	1	1	P	1	1	1	1	1	P

Lampiran Hasil Penelitian Kelas VIII I Nomor Soal 11-15

No	11						12						13						14						15					
	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket
1	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
2	0	1	1	1	1	M	1	1	1	1	1	P	0	0	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
3	0	0	1	0	0	TP	1	1	1	0	0	TP	0	0	1	0	0	TP	1	0	0	0	0	TP	1	1	0	0	0	TP
4	0	1	1	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
5	0	1	1	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
6	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
7	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
8	0	0	1	0	0	TP	1	1	1	1	1	P	1	1	1	1	1	P	0	1	1	1	1	M	0	1	0	1	1	M
9	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
10	0	0	0	0	0	TP	0	0	0	0	0	TP	0	1	1	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P
11	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
12	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
13	0	0	1	0	0	TP	0	1	0	1	1	M	0	1	0	1	1	M	1	0	0	0	0	TP	0	1	0	1	1	M
14	0	1	1	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
15	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
16	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
17	1	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
18	0	0	1	0	0	TP	1	1	1	1	1	P	1	0	0	0	0	TP	0	0	0	0	0	TP	1	1	0	0	0	TP
19	0	1	1	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
20	0	1	1	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
21	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
22	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
23	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M
24	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
25	1	1	1	1	1	P	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
26	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
27	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
28	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
29	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
30	0	1	0	0	0	TP	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
31	0	1	1	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
32	0	1	0	1	1	M	1	1	1	1	1	P	0	0	0	1	0	M	0	1	1	1	1	M	1	1	0	1	1	M

Lampiran Hasil Penelitian Kelas VIII I Nomor Soal 16-20

No	16						17						18						19						20					
	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket
1	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
2	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M
3	1	1	1	0	0	TP	1	1	1	1	1	P	1	1	0	1	1	M	1	1	1	0	0	TP	0	0	0	0	0	TP
4	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
5	0	1	1	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
6	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M
7	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
8	0	0	0	0	0	TP	0	1	0	1	1	M	0	0	1	0	0	TP	0	0	0	0	0	TP	0	0	1	0	0	TP
9	0	1	1	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
10	0	1	0	1	1	M	0	0	0	0	0	TP	0	0	0	0	0	TP	1	1	0	1	1	M	0	1	0	1	1	M
11	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
12	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
13	1	1	1	1	1	P	1	1	1	1	1	P	1	1	0	1	1	M	1	1	0	1	1	M	0	0	0	0	0	TP
14	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
15	0	1	1	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
16	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
17	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
18	1	1	1	1	1	P	1	1	1	1	1	P	1	1	0	1	1	M	1	1	0	1	1	M	0	0	0	0	0	TP
19	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
20	0	1	1	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
21	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P
22	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M
23	1	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
24	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
25	0	1	1	1	1	M	0	1	0	1	1	M	0	0	1	0	0	TP	0	1	0	0	0	M	1	1	1	1	1	P
26	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
27	1	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
28	1	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P
29	1	1	1	1	1	P	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
30	1	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
31	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
32	1	1	1	1	1	P	1	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M

Lampiran Hasil Analisis Pemahaman Konsep Siswa Per Nomer Soal kelas VIII I

Nomer Soal	Persentase Paham Konsep	Persentase Miskonsepsi	Persentase Paham Konsep	Keterangan		
				P (Paham Konsep)	M (Miskonsepsi)	TP (Tidak Paham Konsep)
1	25%	66%	9%	8	21	3
2	12%	88%	0%	4	28	0
3	25%	72%	3%	8	23	1
4	16%	81%	3%	5	26	1
5	19%	75%	6%	6	24	2
6	25%	63%	12%	8	20	4
7	47%	50%	3%	15	16	1
8	28%	69%	3%	9	22	1
9	9%	75%	16%	3	24	5
10	12%	72%	16%	4	23	5
11	3%	78%	19%	1	25	6
12	12%	82%	6%	4	26	2
13	3%	91%	6%	1	29	2
14	3%	88%	9%	1	28	3
15	19%	75%	6%	6	24	2
16	19%	75%	6%	6	24	2
17	9%	88%	3%	3	28	1
18	0%	91%	9%	0	29	3
19	16%	78%	6%	5	25	2
20	9%	79%	12%	3	25	4
Rata-rata	15,55%	76,80%	7,65%			

Lampiran Hasil Penelitian Kelas VIII J Nomor Soal 1-5

No	1						2						3						4						5					
	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket
1	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P
2	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
3	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
4	1	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	0	1	0	1	1	M
5	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	1	1	0	1	1	M
6	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	1	1	0	1	1	M
7	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
8	1	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	1	1	0	1	1	M
9	1	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	1	1	0	1	1	M
10	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	1	1	0	1	1	M
11	1	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
12	1	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	0	M	0	1	0	1	1	M	0	1	0	1	1	M
13	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
14	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
15	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
16	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M
17	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
18	1	1	0	1	1	M	0	1	0	1	0	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
19	1	1	1	1	1	P	0	1	0	1	0	M	1	1	1	1	1	P	0	1	1	1	1	M	1	1	0	1	1	M
20	1	1	1	1	1	P	0	1	0	1	0	M	1	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
21	1	1	1	1	1	P	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
22	1	1	0	0	0	TP	1	0	0	0	0	TP	1	1	1	0	0	TP	1	0	0	0	0	TP	0	0	0	0	0	TP
23	1	1	0	0	0	TP	1	1	1	0	0	TP	1	1	1	1	1	P	1	1	1	1	1	P	1	1	1	1	1	P
24	1	1	0	1	1	M	1	0	0	1	1	M	1	1	1	1	1	P	1	0	0	0	0	TP	0	0	0	0	0	TP
25	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	1	1	0	1	1	M
26	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	1	1	0	1	1	M
27	1	1	1	1	1	P	1	1	1	1	1	P	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M
28	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	1	1	0	1	1	M
29	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	1	1	0	1	1	M
30	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
31	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
32	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M

Lampiran Hasil Penelitian Kelas VIII J Nomor Soal 6-10

No	6						7						8						9						10					
	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket
1	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
2	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
3	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	1	1	0	1	1	M
4	1	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
5	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
6	1	1	1	1	1	P	1	1	1	1	1	P	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
7	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
8	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
9	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
10	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
11	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P
12	0	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P
13	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
14	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
15	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
16	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	0	1	M	1	1	0	1	1	M	0	1	1	1	1	M
17	1	1	1	1	1	P	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
18	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	0	0	0	1	1	M
19	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
20	1	1	1	1	1	P	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
21	1	1	1	1	1	P	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
22	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P
23	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P
24	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P
25	0	1	1	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M	0	1	0	1	1	M
26	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	1	1	1	1	1	P
27	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	1	1	1	1	1	P
28	1	1	1	1	1	P	0	1	1	1	1	M	0	0	0	0	0	TP	1	0	0	1	1	M	0	0	1	0	0	TP
29	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
30	0	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M
31	0	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M
32	1	1	1	1	1	P	1	1	1	1	1	P	0	0	0	0	0	TP	1	0	0	0	0	TP	0	0	0	0	0	TP

Lampiran Hasil Penelitian Kelas VIII J Nomor Soal 11-15

No	11						12						13						14						15					
	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket
1	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
2	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
3	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
4	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
5	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
6	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
7	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P
8	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
9	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
10	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
11	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
12	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
13	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
14	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
15	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
16	0	0	0	1	1	M	0	1	1	1	1	M	0	0	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M
17	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
18	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
19	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
20	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
21	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P
22	0	1	0	1	1	M	0	0	0	0	0	TP	0	1	1	0	0	M	0	0	0	0	0	TP	1	1	1	1	1	P
23	0	1	0	1	1	M	0	0	0	0	0	TP	0	1	1	0	0	M	0	0	0	0	0	TP	1	1	1	0	0	TP
24	0	0	0	1	1	M	0	0	0	1	1	M	0	1	0	0	0	M	0	0	0	1	1	M	1	1	1	1	1	P
25	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
26	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
27	0	0	0	0	0	TP	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
28	0	0	0	0	0	TP	1	1	0	1	1	M	1	0	1	1	1	M	0	0	1	0	1	M	1	1	1	1	1	P
29	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
30	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P
31	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
32	0	0	0	0	0	TP	1	0	0	0	0	TP	0	1	1	1	1	M	0	1	0	1	1	M	1	0	0	0	0	TP

Lampiran Hasil Penelitian Kelas VIII J Nomor Soal 16-20

No	16						17						18						19						20					
	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket
1	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
2	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
3	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
4	1	1	1	1	1	P	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
5	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M
6	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
7	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
8	1	1	1	1	1	P	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
9	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
10	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
11	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
12	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
13	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
14	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
15	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
16		1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
17	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
18	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
19	1	1	1	1	1	P	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
20	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
21	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
22	0	0	0	0	0	TP	1	1	0	1	1	M	0	1	0	0	0	M	1	1	0	0	0	M	0	1	1	0	0	M
23	0	0	0	0	0	TP	1	1	0	1	1	M	0	1	0	0	0	M	1	1	0	0	0	M	0	1	1	0	0	M
24	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	0	0	M	1	1	0	0	0	M	0	1	1	0	0	M
25	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
26	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
27	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
28	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
29	1	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
30	1	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
31	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
32	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	1	1	0	1	1	M

Lampiran Hasil Analisis Pemahaman Konsep Siswa Per Nomer Soal kelas VIII J

Nomer Soal	Persentase Paham Konsep	Persentase Miskonsepsi	Persentase Paham Konsep	Keterangan		
				P (Paham Konsep)	M (Miskonsepsi)	TP (Tidak Paham Konsep)
1	41%	53%	6%	13	17	2
2	16%	78%	6%	5	25	2
3	47%	50%	3%	15	16	1
4	12%	82%	6%	4	26	2
5	9%	85%	6%	3	27	2
6	37%	63%	0%	12	16	0
7	25%	75%	0%	8	24	0
8	16%	78%	6%	5	25	2
9	19%	79%	3%	6	25	1
10	25%	69%	6%	8	22	2
11	3%	88%	9%	1	28	3
12	3%	88%	9%	1	28	3
13	0%	100%	0%	0	32	0
14	0%	94%	6%	0	32	2
15	41%	52%	6%	13	17	2
16	31%	63%	6%	10	20	2
17	6%	94%	0%	2	30	0
18	3%	97%	0%	1	31	0
19	12%	88%	0%	4	28	0
20	3%	97%	0%	1	31	0
Rata-rata	17,45%	78,65%	3,90%			

Lampiran Hasil Penelitian Kelas VIII K Nomor Soal 1-5

No	1						2						3						4						5					
	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket
1	0	0	0	1	0	M	0	1	0	1	1	M	1	1	1	1	1	P	0	0	0	0	0	TP	0	0	0	0	0	TP
2	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
3	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	0	0	0	0	TP
4	1	1	0	0	0	TP	1	1	0	1	1	M	0	1	0	1	1	M	0	0	0	1	1	M	1	0	1	0	0	TP
5	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	0	0	0	0	TP
6	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
7	1	0	0	0	0	TP	0	1	0	0	0	M	0	1	0	1	1	M	0	1	0	1	1	M	1	0	0	0	0	TP
8	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	1	1	0	1	1	M
9	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	0	M	0	0	1	0	0	TP
10	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	0	0	0	0	TP
11	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P
12	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	0	0	0	0	TP
13	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
14	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	1	0	0	0	0	TP
15	1	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	0	1	1	1	1	M	0	1	1	1	1	M
16	1	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	1	1	1	1	1	P	0	1	1	1	1	M
17	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M
18	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
19	1	1	0	1	0	M	1	1	1	1	1	P	0	1	0	0	1	M	0	0	0	1	1	M	0	1	1	1	1	M
20	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M
21	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	0	1	1	1	1	M
22	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
23	1	1	0	1	1	M	0	0	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M
24	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	0	1	1	1	1	M
25	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	0	1	1	1	1	M
26	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P
27	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	0	1	1	1	1	M
28	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	0	1	1	1	1	M
29	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M
30	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	0	1	1	1	1	M
31	0	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	1	1	1	1	1	P	1	1	1	1	1	P
32	1	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
33	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P

34	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M	0	1	1	1	1	M
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Lampiran Hasil Penelitian Kelas VIII K Nomor Soal 6-10

No	6						7						8						9						10					
	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket
1	1	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M	0	0	0	0	0	TP	0	0	0	0	1	M
2	0	1	0	1	1	M	1	1	0	1	1	M	0	0	1	0	0	TP	1	1	1	1	1	P	1	1	1	1	1	P
3	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	0	0	M	1	1	0	1	1	M	0	1	0	1	1	M
4	1	0	0	0	0	TP	0	1	0	1	0	M	0	1	0	1	1	M	1	0	0	0	1	M	1	0	1	1	1	TP
5	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
6	0	1	0	0	0	M	0	0	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
7	1	1	1	1	1	P	1	1	1	1	1	P	0	0	1	0	0	TP	0	1	0	0	1	M	0	0	0	1	0	M
8	0	0	0	0	1	M	0	0	0	1	1	M	0	0	0	0	1	M	0	1	1	1	1	M	0	1	1	1	0	M
9	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
10	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	0	1	0	1	1	M
11	0	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	0	1	0	1	1	M	0	0	0	1	1	M
12	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
13	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M
14	0	1	0	1	1	M	0	1	0	0	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M
15	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P
16	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
17	0	1	0	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
18	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
19	0	1	0	1	0	M	0	1	0	1	1	M	1	1	1	1	1	P	0	0	0	1	0	M	0	1	0	1	1	M
20	0	1	0	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
21	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M
22	0	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M
23	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M
24	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M
25	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M
26	0	1	1	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
27	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
28	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	0	1	M	0	1	0	1	1	M
29	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
30	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M

31	0	1	1	1	1	M	1	1	1	1	1	P	0	0	1	1	0	M	0	1	0	1	1	M	0	1	0	0	1	M
32	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
33	0	1	1	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	0	0	M	0	1	0	1	1	M
34	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	0	0	M	0	1	1	1	1	M

Lampiran Hasil Penelitian Kelas VIII K Nomor Soal 11-15

No	11						12						13						14						15					
	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket
1	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	0	0	0	0	0	TP	1	1	1	1	1	P
2	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
3	1	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
4	0	0	0	0	0	TP	0	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	1	1	1	1	1	P
5	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
6	0	1	0	1	1	M	0	0	0	0	0	TP	1	1	1	1	1	P	0	1	0	0	0	M	1	1	0	1	1	M
7	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
8	1	1	0	1	0	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	0	0	0	0	TP
9	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	1	1	1	1	1	P
10	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	1	1	1	1	1	P
11	0	0	0	0	0	TP	0	0	0	0	0	TP	0	0	1	0	1	M	1	1	1	1	1	P	1	1	1	1	1	P
12	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P
13	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P
14	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
15	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
16	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	1	1	1	1	1	P
17	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P
18	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P
19	0	1	0	0	0	M	0	0	0	0	0	TP	0	1	1	1	1	M	0	0	0	0	0	TP	0	0	1	1	1	M
20	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P
21	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M	0	1	0	1	1	M
22	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P
23	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P
24	0	1	0	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M	0	1	0	1	1	M
25	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M	0	1	0	1	1	M
26	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P
27	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P

28	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P
29	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P
30	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
31	1	0	0	0	0	TP	1	0	0	0	0	TP	0	0	1	0	0	TP	0	0	0	0	0	TP	0	1	0	0	0	M
32	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
33	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P
34	0	0	0	0	0	TP	0	1	0	0	0	M	0	1	0	1	1	M	0	1	1	0	0	M	1	1	0	1	1	M

Lampiran Hasil Penelitian Kelas VIII K Nomor Soal 16-20

No	16						17						18						19						20					
	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket
1	0	0	0	0	0	TP	1	1	0	1	1	M	0	1	0	0	0	M	0	0	0	0	0	TP	1	1	0	1	1	M
2	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
3	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
4	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	0	0	0	0	TP
5	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	0	0	0	0	TP
6	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	0	0	M	1	1	0	1	1	M
7	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
8	1	1	0	1	1	M	0	1	0	0	1	M	0	1	0	0	1	M	1	1	1	1	1	P	0	1	0	1	1	M
9	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
10	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P
11	1	1	1	1	1	P	1	1	0	0	0	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
12	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
13	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
14	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
15	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
16	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
17	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M
18	0	1	1	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	0	M	1	1	0	0	1	M
19	1	1	1	1	1	P	1	1	0	1	1	M	0	1	0	1	1	M	0	0	0	0	0	TP	0	1	1	1	1	M
20	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M
21	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
22	1	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
23	1	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
24	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M

25	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
26	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
27	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
28	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
29	1	1	1	1	1	P	1	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
30	1	1	1	1	1	P	1	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
31	0	1	0	0	0	M	0	1	0	1	1	M	1	1	0	1	0	M	1	1	0	1	1	M	0	1	1	0	0	M
32	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
33	1	1	0	1	1	M	0	1	0	0	0	M	0	1	0	0	0	M	0	1	0	1	1	M	0	1	0	1	1	M
34	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	0	0	M	0	1	0	1	1	M

Lampiran Hasil Analisis Pemahaman Konsep Siswa Per Nomer Soal kelas VIII K

Nomer Soal	Persentase Paham Konsep	Persentase Miskonsepsi	Persentase Paham Konsep	Keterangan		
				P (Paham Konsep)	M (Miskonsepsi)	TP (Tidak Paham Konsep)
1	23%	71	6	8	24	2
2	9%	91	0	5	29	0
3	59%	41	0	20	14	0
4	32%	65	3	11	22	1
5	12%	59	29	4	20	10
6	3%	94	3	1	32	1
7	24%	76	0	8	26	0
8	15%	79	6	5	27	2
9	12%	85	3	4	29	1
10	6%	91	3	2	31	1
11	3%	85	12	1	29	4
12	12%	76	12	4	26	4
13	24%	73	3	8	25	1
14	9%	88	3	3	30	1
15	56%	41	3	19	14	1
16	15%	82	3	5	28	1
17	3%	97	0	1	33	0
18	0%	100	0	0	34	0
19	12%	82	6	4	28	2
20	3%	91	6	1	31	2
Rata-rata	16,6%	78,35%	5,05%			

Lampiran Hasil Penelitian Kelas IX I Nomor Soal 1-5

No	1						2						3						4						5					
	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket
1	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
2	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M
3	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M
4	1	1	0	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	1	1	1	1	1	P
5	1	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	0	M	0	1	0	1	1	M	0	1	0	1	1	M
6	1	1	0	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	1	1	1	1	1	P
7	1	1	0	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	1	1	1	1	1	P
8	1	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
9	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
10	1	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
11	1	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P
12	1	1	1	1	1	P	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M
13	1	1	1	1	1	P	1	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M
14	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M
15	0	1	0	1	1	M	0	1	0	1	0	M	0	1	0	1	0	M	0	1	0	1	1	M	0	1	0	1	0	M
16	1	0	0	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M
17	0	1	0	1	1	M	0	1	0	1	0	M	0	1	0	1	0	M	0	1	0	1	1	M	0	1	0	1	0	M
18	1	1	1	1	1	P	0	1	0	1	0	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
19	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
20	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
21	1	1	1	1	1	P	0	1	1	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
22	1	1	0	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	1	1	0	1	1	M
23	1	1	0	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M
24	1	1	0	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M
25	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	0	1	1	1	1	M
26	1	1	1	1	1	P	0	0	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
27	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M
28	1	1	1	1	1	P	0	1	1	0	0	M	1	1	1	1	1	P	0	1	0	1	1	M	1	1	0	1	1	M
29	1	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	0	1	1	1	1	M
30	1	1	1	0	0	TP	0	0	0	1	1	M	1	1	0	1	1	M	0	0	0	0	0	TP	0	0	0	0	0	TP
31	1	1	1	1	1	P	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M	0	0	1	0	0	TP
32	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
33	1	1	1	1	1	P	1	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P

34	0	1	0	1	0	M	0	1	0	1	1	M	0	0	0	1	1	M	1	0	0	1	1	M	0	0	0	0	0	TP
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Lampiran Hasil Penelitian Kelas IX I Nomor Soal 6-10

No	6						7						8						9						10					
	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket
1	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
2	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
3	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
4	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	0	M
5	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
6	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
7	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
8	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	0	0	0	0	TP	0	1	0	1	1	M
9	0	1	1	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
10	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
11	0	0	1	1	0	M	0	1	0	1	0	M	0	1	0	0	1	M	1	1	1	0	1	TP	0	1	0	1	1	M
12	0	1	1	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
13	0	1	1	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
14	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	0	1	0	0	TP
15	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
16	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
17	1	1	1	1	1	P	0	1	0	1	0	M	0	1	0	1	0	M	1	1	1	1	1	P	0	1	0	1	0	M
18	0	1	1	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
19	1	1	1	1	1	P	0	1	0	1	0	M	0	0	0	1	0	M	1	1	1	1	1	P	0	1	0	1	0	M
20	1	0	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	0	1	0	1	0	M
21	0	1	1	1	1	M	1	1	1	1	1	P	0	1	0	1	0	M	0	1	1	1	1	M	0	1	1	1	1	M
22	1	1	1	1	1	P	0	1	1	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	0	0	0	1	1	M
23	1	1	1	1	1	P	0	1	1	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M
24	1	1	1	1	1	P	0	1	1	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M
25	0	0	1	0	0	TP	0	1	0	1	0	M	0	1	1	1	1	M	0	1	0	1	0	M	1	1	0	1	1	M
26	1	1	1	1	1	P	0	1	0	1	0	M	0	1	1	1	1	M	1	1	1	1	1	P	0	1	0	1	0	M
27	0	1	0	1	1	M	0	1	0	1	0	M	0	1	0	1	0	M	1	1	1	1	1	P	0	1	0	1	0	M
28	0	1	0	1	1	M	0	1	0	1	0	M	0	1	0	1	0	M	1	1	1	1	1	P	0	1	0	1	0	M
29	0	1	0	1	0	M	0	1	0	1	0	M	0	1	0	1	0	M	0	1	0	1	1	M	0	1	0	1	0	M
30	0	1	0	1	1	M	0	0	0	0	0	TP	0	0	1	0	0	TP	0	0	1	0	0	TP	0	0	1	0	0	TP

31	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	0	0	M	0	0	0	0	0	TP	0	0	0	0	0	TP
32	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
33	0	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
34	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M

Lampiran Hasil Penelitian Kelas IX I Nomor Soal 11-15

No	11						12						13						14						15					
	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket
1	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M
2	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P
3	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
4	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
5	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P
6	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
7	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
8	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P
9	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
10	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P
11	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
12	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P
13	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P
14	0	1	0	1	1	M	0	0	0	1	0	N	0	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P
15	0	1	0	1	0	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	0	M	0	1	0	1	0	M
16	0	1	0	0	0	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
17	0	1	0	1	0	M	0	1	0	1	0	M	0	1	0	1	0	M	0	1	0	1	0	M	0	1	0	1	0	M
18	0	1	1	1	1	M	0	1	0	1	0	M	0	1	0	1	0	M	1	1	0	1	0	M	0	1	0	1	1	M
19	0	0	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	0	M
20	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M
21	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
22	0	1	0	1	1	M	1	1	1	0	0	TP	0	0	1	0	0	TP	0	1	0	1	1	M	1	1	0	1	1	M
23	0	1	0	1	1	M	1	0	0	0	0	TP	0	0	1	0	0	TP	0	1	0	1	1	M	0	1	1	1	1	M
24	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M
25	0	0	0	0	0	TP	0	0	0	0	0	TP	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
26	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
27	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M

28	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	0	1	1	1	TP
29	0	1	0	0	1	M	1	0	1	1	1	TP	0	0	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
30	0	0	0	0	0	TP	1	1	0	0	0	TP	0	1	0	0	0	M	0	1	0	1	1	M	1	1	1	1	1	P
31	0	0	0	0	0	TP	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
32	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
33	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
34	0	0	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M

Lampiran Hasil Penelitian Kelas IX I Nomor Soal 16-20

No	16						17						18						19						20					
	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket
1	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
2	1	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
3	1	1	1	1	1	P	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
4	0	1	1	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
5	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
6	0	1	1	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
7	0	1	1	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
8	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
9	0	1	1	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M
10	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	1	1	0	M	0	1	0	1	1	M
11	0	1	1	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
12	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
13	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
14	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	0	M
15	0	1	0	1	0	M	1	1	0	1	0	M	0	0	0	1	1	M	0	1	1	1	1	M	1	1	0	1	0	M
16	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
17	0	1	0	1	0	M	1	1	0	1	0	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
18	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
19	0	1	0	0	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
20	0	1	0	0	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
21	1	1	1	1	1	P	1	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M
22	0	1	0	0	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M
23	0	1	0	0	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M
24	0	1	0	0	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M

25	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	0	0	M
26	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
27	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
28	1	1	0	0	0	TP	1	1	0	0	0	M	0	1	0	1	1	M	0	1	0	0	0	M	1	1	0	1	1	M
29	0	1	0	1	0	M	1	1	0	1	0	M	0	1	0	1	0	M	0	1	1	1	1	M	1	1	0	1	1	M
30	0	0	0	0	0	TP	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
31	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
32	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	0	0	M
33	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
34	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M

Lampiran Hasil Analisis Pemahaman Konsep Siswa Per Nomer Soal kelas IX I

Nomer Soal	Persentase Paham Konsep	Persentase Miskonsepsi	Persentase Paham Konsep	Keterangan		
				P (Paham Konsep)	M (Miskonsepsi)	TP (Tidak Paham Konsep)
1	29%	68%	3%	10	23	1
2	6%	94%	0%	2	32	0
3	47%	53%	0%	16	18	0
4	0%	97%	3%	0	33	1
5	15%	76%	9%	5	26	3
6	26%	71%	3%	9	24	1
7	15%	82%	3%	5	28	1
8	0%	97%	3%	0	33	1
9	23%	68%	9%	8	23	3
10	3%	88%	9%	1	30	3
11	0%	91%	9%	0	31	3
12	0%	85%	15%	0	29	5
13	0%	94%	6%	0	32	2
14	18%	82%	0%	6	28	0
15	26%	71%	3%	9	24	1
16	15%	79%	6%	5	27	2
17	9%	91%	0%	3	31	0
18	0%	100%	0%	0	34	0
19	53%	47%	0%	18	16	0
20	0%	100%	0%	0	34	0
Rata - rata	14,25%	81,70%	4,05%			

Lampiran Hasil Penelitian Kelas IX K Nomor Soal 1-5

1	1						2						3						4						5					
	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket
1	0	1	1	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P
2	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M	0	1	0	1	1	M
3	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
4	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
5	0	1	1	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
6	1	1	0	1	1	M	0	1	0	0	0	M	0	0	0	0	0	TP	1	0	1	0	0	TP	0	0	0	0	0	TP
7	1	1	0	1	1	M	0	1	1	1	1	M	0	0	0	1	1	M	0	0	0	0	0	TP	0	0	0	0	0	TP
8	0	1	0	0	0	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	1	0	0	0	0	TP
9	1	1	1	1	1	P	1	1	1	1	1	P	1	1	1	1	1	P	1	1	0	1	1	M	1	1	1	1	1	P
10	1	0	0	0	0	TP	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
11	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
12	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M
13	1	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
14	0	0	0	0	0	TP	0	0	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
15	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M
16	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M
17	1	1	1	1	1	P	1	1	1	1	1	P	1	1	1	1	1	P	0	1	1	1	1	M	1	1	1	1	1	P
18	1	1	1	1	1	P	1	1	1	1	1	P	1	1	1	1	1	P	0	1	1	1	1	M	0	1	1	1	1	M
19	1	1	1	1	1	P	0	1	1	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	0	1	1	1	1	M
20	1	1	1	1	1	P	1	1	1	1	1	P	1	1	1	1	1	P	0	1	1	1	1	M	1	1	1	1	1	P
21	1	1	1	1	1	P	0	1	1	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M
22	1	1	1	1	1	P	1	1	1	1	1	P	1	1	1	1	1	P	0	1	1	1	1	M	1	1	1	1	1	P
23	1	1	1	1	1	P	0	1	1	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M
24	1	1	1	1	1	P	0	1	1	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P
25	1	0	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	0	0	0	1	0	M	1	0	0	0	0	TP
26	1	1	1	1	1	P	1	1	0	1	1	M	0	0	0	0	0	TP	0	1	0	1	1	M	0	0	0	0	0	TP
27	1	1	1	1	1	P	1	1	0	1	1	M	0	0	0	0	0	TP	0	1	0	1	1	M	0	0	0	0	0	TP
28	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P
29	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	0	0	0	0	TP
30	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
31	1	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	1	1	0	1	1	M	1	1	0	1	1	M
32	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M

Lampiran Hasil Penelitian Kelas IX K Nomor Soal 6-10

No	6						7						8						9						10					
	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket
1	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
2	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
3	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P
4	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M
5	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
6	0	0	0	0	0	TP	0	0	0	0	0	TP	0	0	1	0	0	TP	1	0	0	0	0	TP	1	0	0	0	0	TP
7	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M
8	0	0	1	0	1	M	0	1	0	1	1	M	0	0	1	0	1	M	0	1	0	1	1	M	0	1	0	1	1	M
9	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M
10	1	0	0	0	0	TP	1	1	1	0	1	TP	0	0	0	0	0	TP	0	1	0	1	1	M	0	1	0	1	1	M
11	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
12	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
13	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
14	0	1	0	1	1	M	0	0	0	0	0	TP	0	0	0	0	0	TP	0	1	0	1	1	M	0	1	0	0	0	M
15	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
16	0	1	1	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
17	1	1	1	1	1	P	1	1	1	1	1	P	0	1	1	1	1	M	0	0	0	1	1	M	1	1	0	1	1	M
18	1	0	0	0	0	TP	1	1	1	1	1	P	1	1	1	1	1	P	1	1	0	1	1	M	0	1	0	1	1	M
19	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P
20	1	1	1	1	1	P	1	1	1	1	1	P	0	0	0	0	1	M	0	0	0	1	1	M	0	1	1	1	1	M
21	0	1	1	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
22	0	0	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	1	1	0	1	1	M
23	0	1	1	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
24	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	1	1	0	1	1	M
25	0	1	0	0	0	M	1	1	1	1	1	P	1	1	1	1	1	P	1	1	0	1	1	M	0	0	0	0	0	TP
26	0	1	1	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	1	1	0	1	1	M	1	1	0	1	1	M
27	0	1	1	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	1	0	1	1	1	M	0	1	0	1	1	M
28	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
29	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	0	0	0	0	TP
30	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
31	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	1	1	0	1	1	M
32	1	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M

Lampiran Hasil Penelitian Kelas IX K Nomor Soal 11-15

No	11						12						13						14						15					
	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket
1	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
2	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
3	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
4	1	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
5	0	1	1	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
6	0	0	1	0	0	TP	0	1	1	0	0	M	0	1	0	0	0	M	1	1	0	0	0	TP	0	1	0	0	0	M
7	0	0	1	0	0	TP	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M
8	0	0	0	0	0	TP	1	0	1	0	0	TP	0	0	0	0	0	TP	0	1	0	1	1	M	1	1	1	1	1	P
9	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M	0	1	0	1	1	M
10	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
11	0	1	1	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
12	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	0	1	1	1	M
13	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M
14	0	0	0	0	0	TP	0	1	1	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	0	1	M
15	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	0	0	1	1	M	0	1	0	1	1	M
16	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M
17	1	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M
18	0	0	0	0	0	TP	0	1	0	1	1	M	0	0	0	0	0	TP	0	0	1	0	0	TP	1	1	1	1	1	P
19	1	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
20	1	1	0	1	1	M	1	0	0	0	1	M	0	0	0	0	1	M	1	0	0	0	1	M	1	1	1	1	1	P
21	0	1	1	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
22	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	1	1	0	1	1	M
23	0	1	1	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P
24	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M	1	1	1	1	1	P
25	0	0	0	0	0	TP	1	1	0	1	1	M	0	0	0	0	0	TP	0	0	0	0	0	TP	1	0	1	0	0	TP
26	0	0	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	0	0	0	0	TP	1	1	1	1	1	P
27	0	0	0	0	0	TP	0	1	0	1	1	M	0	1	1	1	1	M	0	0	0	0	0	TP	1	1	1	1	1	P
28	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
29	0	0	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M
30	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
31	1	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P
32	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M

Lampiran Hasil Penelitian Kelas IX K Nomor Soal 16-20

No	16						17						18						19						20					
	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket	1	2	3	4	5	ket
1	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
2	1	1	1	1	1	P	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M
3	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
4	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
5	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
6	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M
7	0	0	0	0	0	TP	0	0	0	0	0	TP	0	1	0	1	1	M	1	1	1	1	1	P	1	0	0	0	0	TP
8	0	0	1	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
9	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M
10	0	0	0	0	0	TP	1	1	1	1	1	P	0	1	1	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
11	0	1	1	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
12	1	1	0	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M
13	1	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M
14	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	0	M	0	1	1	1	0	M	0	1	0	1	0	M
15	0	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
16	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
17	1	1	1	1	1	P	0	1	1	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M
18	0	0	0	0	0	TP	0	1	0	1	1	M	0	1	1	1	1	M	0	0	0	0	0	TP	0	1	1	1	1	M
19	1	1	1	1	1	P	1	1	0	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P
20	1	1	1	1	1	P	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
21	1	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M	1	1	1	1	1	P	0	1	1	1	1	M
22	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	0	1	0	1	1	M
23	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M
24	0	1	0	1	1	M	1	1	1	1	1	P	1	1	1	1	1	P	0	1	0	1	1	M	0	1	1	1	1	M
25	0	0	0	0	0	TP	0	0	0	0	0	TP	0	1	1	1	0	M	0	0	0	0	0	TP	0	0	1	0	0	TP
26	0	0	0	0	0	TP	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
27	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M
28	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M	1	1	1	1	1	P	1	1	0	1	1	M
29	0	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M
30	1	1	0	1	1	M	0	1	0	1	1	M	0	1	0	1	1	M	0	1	1	1	1	M	1	1	0	1	1	M
31	0	1	1	1	1	M	1	1	0	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M	0	1	1	1	1	M
32	0	1	0	1	1	M	1	1	0	1	1	M	0	1	0	1	1	M	1	1	0	1	1	M	1	1	0	1	1	M

Lampiran Hasil Analisis Pemahaman Konsep Siswa Per Nomer Soal kelas IX K

Nomer Soal	Persentase Paham Konsep	Persentase Miskonsepsi	Persentase Paham Konsep	Keterangan		
				P (Paham Konsep)	M (Miskonsepsi)	TP (Tidak Paham Konsep)
1	38%	56%	6%	12	18	2
2	31%	69%	0%	10	22	0
3	47%	44%	9%	15	14	3
4	9%	85%	6%	3	27	2
5	22%	56%	22%	7	18	7
6	9%	82%	9%	3	26	3
7	31%	60%	9%	10	19	3
8	28%	81%	9%	9	20	3
9	3%	94%	3%	1	30	1
10	6%	85%	9%	2	28	3
11	0%	78%	22%	0	25	7
12	3%	94%	3%	1	30	1
13	17%	74%	9%	5	24	3
14	12%	69%	19%	4	22	6
15	31%	66%	3%	10	21	1
16	22%	62%	16%	7	20	5
17	13%	81%	6%	4	26	2
18	6%	94%	0%	2	30	0
19	34%	60%	6%	11	10	2
20	3%	91%	6%	1	29	2
Rata-rata	18,25%	74,05%	7,70%			