

Fig 1. mood #	111	112	113	114	115	116	117	118	121	122	123	124	125	126	127	128
major QR or QSR	mn	mn	mn	mn	mn	mn	mn	mn	mq	mq	mq	mq	mq	mq	mq	mq
minor PSQ or PQ	mn	mq	np	pq	m	n	p	q	mn	mq	np	pq	m	n	p	q
3-item conclusion PR (absolute)	mn	mq abs	np abs	pq abs	m	n	p abs	q abs	mq abs	mq abs	nil	not-n	mq abs	nil	nil	not-n
PHASE I / 4-item conclusion PSR (relative to S)	mn	mq rel	np rel	pq rel	m	n	p rel	q rel	mq rel	??	"nil"	??	m	"nil"	"nil"	??
PHASE III / 4-item conclusion PR or PSR (relative to S)	mn	mq rel	np rel	pq rel	m	n	p rel	q rel	mq rel	m	"nil"	not-n	m	"nil"	"nil"	not-n
status	same valid	new +ve rel/valid	new +ve rel/valid	new +ve rel/valid	same valid	same valid	new +ve rel/valid	new +ve rel/valid	new +ve rel/valid	only m valid	presume no concl.	same valid	only m valid	presume no concl.	presume no concl.	same valid

Fig 2. mood #	211	212	213	214	215	216	217	218	221	222	223	224	225	226	227	228
major RQ or RSQ	mn	mn	mn	mn	mn	mn	mn	mn	mq	mq	mq	mq	mq	mq	mq	mq
minor PSQ or PQ	mn	mq	np	pq	m	n	p	q	mn	mq	np	pq	m	n	p	q
3-item conclusion PR (absolute)	mn	mq abs	np abs	pq abs	m	n	p abs	q abs	np abs	nil	np abs	not-m	nil	np abs	not-m	nil
PHASE I / 4-item conclusion PSR (relative to S)	mn	mq rel	np rel	pq rel	m	n	p rel	q rel	n	"nil"	??	??	"nil"	n	??	"nil"
PHASE III / 4-item conclusion PR or PSR (relative to S)	mn	mq rel	np rel	pq rel	m	n	p rel	q rel	n + not-p rel (not np)	"nil"	n	not-m	"nil"	n + not-p rel (not np)	not-m	"nil"
status	same valid	new +ve rel/valid	new +ve rel/valid	new +ve rel/valid	same valid	same valid	new +ve rel/valid	new +ve rel/valid	new +ve rel/valid	presume no concl.	at least n valid	same valid	presume no concl.	new -ve rel/valid	same valid	presume no concl.

Fig 3. mood #	311	312	313	314	315	316	317	318	321	322	323	324	325	326	327	328
major QR or QSR	mn	mn	mn	mn	mn	mn	mn	mn	mq	mq	mq	mq	mq	mq	mq	mq
minor QSP or QP	mn	mq	np	pq	m	n	p	q	mn	mq	np	pq	m	n	p	q
3-item conclusion PR (absolute)	mn	np abs	mq abs	pq abs	n	m	q abs	p abs	mq abs	nil	mq abs	not-n	nil	mq abs	not-n	nil
PHASE I / 4-item conclusion PSR (relative to S)	mn	n	m	"nil"	n	m	"nil"	"nil"	mq rel	"nil"	??	??	"nil"	m	??	"nil"
PHASE III / 4-item conclusion PR or PSR (relative to S)	mn	n + not-p rel (not np)	m + not-q rel (not mq)	not-p rel + not-q rel	n	m	not-q rel	not-p rel	mq rel	"nil"	m	not-n	"nil"	m	not-n	"nil"
status	same valid	new -ve rel/valid	new -ve rel/valid	new -ve rel/valid	same valid	same valid	new -ve rel/valid	new -ve rel/valid	new +ve rel/valid	presume no concl.	at least m valid	same valid	presume no concl.	only m valid	same valid	presume no concl.

9 cases
15 cases
15 cases
25 cases

subfigure a (both premises involve strong only)
subfigure b (minor premise involves a weak)
subfigure c (major premise involves a weak)
subfigure d (both premises involve a weak)

positive conclusion in 3-items, and ditto in 4-items
conclusion differs in 4-item phase I from 3-item phase II
conclusion differs in 4-item phase III from 4-item phase I
negative conclusion in 3-items and ditto in 4-items
no conclusion found in 3-item syllogism; known nil
no conclusion sought in 4-item syllogism; tentatively presumed nil
mood not investigated in phase I (only a special case examined)

"only" m (or n) means that we do not know whether q rel (or p rel, as the case may be) is true or false, whereas:
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N.B. Although a nil conclusion in 3-item syllogism does not imply same in 4-item syllogism, we are here tentatively accepting for now that it indeed does.

Fig 1. mood #	131	132	133	134	135	136	137	138	141	142	143	144	145	146	147	148
major QR or QSR minor PSQ or PQ	np mn	np mq	np np	np pq	np m	np n	np p	np q	pq mn	pq mq	pq np	pq pq	pq m	pq n	pq p	pq q
3-item conclusion PR (absolute)	np abs	nil	np abs	not-m	nil	np abs	not-m	nil	pq abs	not-n	not-m	nil	not-n	not-m	nil	nil
PHASE I / 4-item conclusion PSR (relative to S)	np rel	"nil"	??	??	"nil"	n	??	"nil"	pq rel	??	??	"nil"	"nil"	"nil"	"nil"	"nil"
PHASE III / 4-item conclusion PR or PSR (relative to S)	np rel	"nil"	n	not-m	"nil"	n	not-m	"nil"	pq rel	not-n	not-m	"nil"	not-n	not-m	"nil"	"nil"
status	new +ve rel/valid	presume no concl. no concl.	only n valid	same valid	presume no concl.	only n valid	same valid	presume no concl.	new +ve rel/valid	same valid	same valid	presume no concl.	same valid	same valid	presume no concl.	presume no concl.

Fig 2. mood #	231	232	233	234	235	236	237	238	241	242	243	244	245	246	247	248
major QR or RSQ minor PSQ or PQ	np mn	np mq	np np	np pq	np m	np n	np p	np q	pq mn	pq mq	pq np	pq pq	pq m	pq n	pq p	pq q
3-item conclusion PR (absolute)	mq abs	mq abs	nil	not-n	mq abs	nil	nil	not-n	pq abs	not-n	not-m	nil	not-n	not-m	nil	nil
PHASE I / 4-item conclusion PSR (relative to S)	m	??	"nil"	??	m	"nil"	"nil"	??	"nil"	??	??	"nil"	"nil"	"nil"	"nil"	"nil"
PHASE III / 4-item conclusion PR or PSR (relative to S)	m + not q rel (not mq)	m	"nil"	not-n	m + not q rel (not mq)	"nil"	"nil"	not-n	not-p rel + not-q rel	not-n	not-m	"nil"	not-n	not-m	"nil"	"nil"
status	new -ve rel/valid	at least m valid	presume no concl.	same valid	new -ve rel/valid	presume no concl.	presume no concl.	same valid	new -ve rel/valid	same valid	same valid	presume no concl.	same valid	same valid	presume no concl.	presume no concl.

Fig 3. mood #	331	332	333	334	335	336	337	338	341	342	343	344	345	346	347	348
major QR or QSR minor QSP or QP	np mn	np mq	np np	np pq	np m	np n	np p	np q	pq mn	pq mq	pq np	pq pq	pq m	pq n	pq p	pq q
3-item conclusion PR (absolute)	np abs	np abs	nil	not-m	np abs	nil	nil	not-m	pq abs	not-m	not-n	nil	not-m	not-n	nil	nil
PHASE I / 4-item conclusion PSR (relative to S)	np rel	??	"nil"	??	n	"nil"	"nil"	??	pq rel	??	??	"nil"	"nil"	"nil"	"nil"	"nil"
PHASE III / 4-item conclusion PR or PSR (relative to S)	np rel	n	"nil"	not-m	n	"nil"	"nil"	not-m	pq rel	not-m	not-n	"nil"	not-m	not-n	"nil"	"nil"
status	new +ve rel/valid	at least n valid	presume no concl.	same valid	only n valid	presume no concl.	presume no concl.	same valid	new +ve rel/valid	same valid	same valid	presume no concl.	same valid	same valid	presume no concl.	presume no concl.

"only" m (or n) means that we do not know whether q rel (or p rel, as the case may be) is true or false, whereas:
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- 9 cases
- 15 cases
- 15 cases
- 25 cases
- positive conclusion in 3-items, and ditto in 4-items
- conclusion differs in 4-item phase I from 3-item phase II
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- negative conclusion in 3-items and ditto in 4-items
- no conclusion found in 3-item syllogism; known nil
- no conclusion sought in 4-item syllogism; tentatively presumed nil
- mood not investigated in phase I (only a special case examined)

N.B. Although a nil conclusion in 3-item syllogism does not imply same in 4-item syllogism, we are here tentatively accepting for now that it indeed does.

Fig 1. mood #	151	152	153	154	155	156	157	158	161	162	163	164	165	166	167	168
major QR or QSR	m	m	m	m	m	m	m	m	n	n	n	n	n	n	n	n
minor PSQ or PQ	mn	mq	np	pq	m	n	p	q	mn	mq	np	pq	m	n	p	q
3-item conclusion PR (absolute)	m	mq abs	nil	not-n	m	nil	nil	not-n	n	nil	np abs	not-m	nil	n	not-m	nil
PHASE I / 4-item conclusion PSR (relative to S)	m	m	"nil"	"nil"	m	"nil"	"nil"	"nil"	n	"nil"	n	"nil"	"nil"	n	"nil"	"nil"
PHASE III / 4-item conclusion PR or PSR (relative to S)	m	m	"nil"	not-n	m	"nil"	"nil"	not-n	n	"nil"	n	not-m	"nil"	n	not-m	"nil"
status	same valid	only m valid	presume no concl.	same valid	same valid	presume no concl.	presume no concl.	same valid	same valid	presume no concl.	only n valid	same valid	presume no concl.	same valid	same valid	presume no concl.

Fig 2. mood #	251	252	253	254	255	256	257	258	261	262	263	264	265	266	267	268
major RQ or RSQ	m	m	m	m	m	m	m	m	n	n	n	n	n	n	n	n
minor PSQ or PQ	mn	mq	np	pq	m	n	p	q	mn	mq	np	pq	m	n	p	q
3-item conclusion PR (absolute)	n	nil	np abs	not-m	nil	n	not-m	nil	m	mq abs	nil	not-n	m	nil	nil	not-n
PHASE I / 4-item conclusion PSR (relative to S)	n	"nil"	n	"nil"	"nil"	n	"nil"	"nil"	m	m	"nil"	"nil"	m	"nil"	"nil"	"nil"
PHASE III / 4-item conclusion PR or PSR (relative to S)	n	"nil"	n	not-m	"nil"	n	not-m	"nil"	m	m	"nil"	not-n	m	"nil"	"nil"	not-n
status	same valid	presume no concl.	only n valid	same valid	presume no concl.	same valid	same valid	presume no concl.	same valid	only m valid	presume no concl.	same valid	same valid	presume no concl.	presume no concl.	same valid

Fig. 3 mood #	351	352	353	354	355	356	357	358	361	362	363	364	365	366	367	368
major QR or QSR	m	m	m	m	m	m	m	m	n	n	n	n	n	n	n	n
minor QSP or QP	mn	mq	np	pq	m	n	p	q	mn	mq	np	pq	m	n	p	q
3-item conclusion PR (absolute)	m	nil	mq abs	not-n	nil	m	not-n	nil	n	np abs	nil	not-m	n	nil	nil	not-m
PHASE I / 4-item conclusion PSR (relative to S)	m	"nil"	m	"nil"	"nil"	m	"nil"	"nil"	n	n	"nil"	"nil"	n	"nil"	"nil"	"nil"
PHASE III / 4-item conclusion PR or PSR (relative to S)	m	"nil"	m + q rel (not mq)	not-n	"nil"	m	not-n	"nil"	n	n + p rel (not np)	"nil"	not-m	n	"nil"	"nil"	not-m
status	same valid	presume no concl.	new -ve rel valid	same valid	presume no concl.	same valid	same valid	presume no concl.	same valid	new -ve rel valid	presume no concl.	same valid	same valid	presume no concl.	presume no concl.	same valid

9 cases
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Fig 1. mood #	171	172	173	174	175	176	177	178	181	182	183	184	185	186	187	188
major QR or QSR minor PSQ or PQ	p mn	p mq	p np	p pq	p m	p n	p p	p q	q mn	q mq	q np	q pq	q m	q n	q p	q q
3-item conclusion PR (absolute)	p abs	nil	not-m	nil	nil	not-m	nil	nil	q abs	not-n	nil	nil	not-n	nil	nil	nil
PHASE I / 4-item conclusion PSR (relative to S)	p rel	"nil"	??	"nil"	"nil"	"nil"	"nil"	"nil"	q rel	??	"nil"	"nil"	"nil"	"nil"	"nil"	"nil"
PHASE III / 4-item conclusion PR or PSR (relative to S)	p rel	"nil"	not-m	"nil"	"nil"	not-m	"nil"	"nil"	q rel	not-n	"nil"	"nil"	not-n	"nil"	"nil"	"nil"
status	new +ve rel/valid	presume no concl.	same valid	presume no concl.	presume no concl.	same valid	presume no concl.	presume no concl.	new +ve rel/valid	same valid	presume no concl.	presume no concl.	same valid	presume no concl.	presume no concl.	presume no concl.

Fig 2. mood #	271	272	273	274	275	276	277	278	281	282	283	284	285	286	287	288
major RQ or RSQ minor PSQ or PQ	p mn	p mq	p np	p pq	p m	p n	p p	p q	q mn	q mq	q np	q pq	q m	q n	q p	q q
3-item conclusion PR (absolute)	q abs	not-n	nil	nil	not-n	nil	nil	nil	p abs	nil	not-m	nil	nil	not-m	nil	nil
PHASE I / 4-item conclusion PSR (relative to S)	"nil"	??	"nil"	"nil"	"nil"	"nil"	"nil"	"nil"	"nil"	"nil"	??	"nil"	"nil"	"nil"	"nil"	"nil"
PHASE III / 4-item conclusion PR or PSR (relative to S)	not-q rel	not-n	"nil"	"nil"	not-n	"nil"	"nil"	"nil"	not-p rel	"nil"	not-m	"nil"	"nil"	not-m	"nil"	"nil"
status	new +ve rel/valid	same valid	presume no concl.	presume no concl.	same valid	presume no concl.	presume no concl.	presume no concl.	new +ve rel/valid	presume no concl.	same valid	presume no concl.	presume no concl.	same valid	presume no concl.	presume no concl.

Fig. 3 mood #	371	372	373	374	375	376	377	378	381	382	383	384	385	386	387	388
major QR or QSR minor QSP or QP	p mn	p mq	p np	p pq	p m	p n	p p	p q	q mn	q mq	q np	q pq	q m	q n	q p	q q
3-item conclusion PR (absolute)	p abs	not-m	nil	nil	not-m	nil	nil	nil	q abs	nil	not-n	nil	nil	not-n	nil	nil
PHASE I / 4-item conclusion PSR (relative to S)	p rel	??	"nil"	"nil"	"nil"	"nil"	"nil"	"nil"	q rel	"nil"	??	"nil"	"nil"	"nil"	"nil"	"nil"
PHASE III / 4-item conclusion PR or PSR (relative to S)	p rel	not-m	"nil"	"nil"	not-m	"nil"	"nil"	"nil"	q rel	"nil"	not-n	"nil"	"nil"	not-n	"nil"	"nil"
status	new +ve rel/valid	same valid	presume no concl.	presume no concl.	same valid	presume no concl.	presume no concl.	presume no concl.	new +ve rel/valid	presume no concl.	same valid	presume no concl.	presume no concl.	same valid	presume no concl.	presume no concl.

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