

**THIS VERSION IS FOR STUDENTS
WITH AN EVEN STUDENT NUMBER**

**DO NOT TURN OVER THIS PAGE UNTIL
INSTRUCTED TO DO SO**

Learning Mathematical Notation

This study is about how students learn mathematical notation, and what factors help or hinder this.

You will be asked to learn some new symbols for familiar mathematical operations, and then be tested on how rapidly you can complete some basic sums using these symbols.

It is very important that you follow the instructions of the experimenter. **DO NOT** turn over this page until instructed.

The data from this study might be used for other, future research projects in addition to the study you are currently participating in. Those future projects can focus on any topic that might be unrelated to the goals of this study. We will give access to the data we are collecting to the general public via the Internet. *We will not collect any personal information that could possibly identify you. Your responses will be completely anonymous.*

Please read each statement below and tick if appropriate:

The purpose and details of this study have been explained to me. I understand that this study is designed to further scientific knowledge and that all procedures have been approved by the Loughborough University Ethics Approvals (Human Participants) Sub-Committee.

I understand that at no point during this study will I be required to identify myself, and that my data will be completely anonymous.

I understand that I am under no obligation to take part in the study, have the right to withdraw from this study at any stage for any reason, and will not be required to explain my reasons for withdrawing.

I am willing to take part in this study and have my data included in the analysis.

Now please fill out the following information.

Your gender:

Your age:

There are two phases to this experiment. The 'learning phase' will last THREE minutes. And the 'test phase' will also last THREE minutes. To make sure that each participant has exactly the same amount of time, you should not move between the phases until instructed by the experimenter.

Please wait for instructions from the experimenter.

The Learning Phase

Different cultures use different mathematical symbols. In this section you will be taught one particular symbol system.

You will be taught four new symbols for the regular arithmetic operations of plus, minus, multiply and divide.

Here are four new symbols:

- The \diamond operation means 'add the two numbers'. For instance $2 \diamond 3 = 5$.
- The \triangleright operation means 'subtract the second number from the first'. For instance, $5 \triangleright 3 = 2$.
- The \blacklozenge operation means 'multiply the two numbers'. For instance, $2 \blacklozenge 3 = 6$.
- The \blacktriangleright operation means 'divide the first number by the second number'. For instance, $6 \blacktriangleright 3 = 2$.

We can use these symbols in a similar way to the symbols you are familiar with.

For example:

$$(((5 \diamond 3 \diamond 5) \triangleright 3) \blacklozenge 5) \blacktriangleright 2 = 25$$

Similarly:

$$((30 \blacktriangleright 6) \diamond 10) \blacklozenge 2 = 30$$

Try this problem yourself:

$$(30 \diamond (4 \blacklozenge 5)) \blacktriangleright (9 \triangleright (2 \diamond 2)) =$$

It is very important that you remember which symbol is which.

In the next phase of the experiment you will be asked to do as many simple arithmetic problems as you can in THREE minutes. The problems will be presented using the new symbols you have learned.

DO NOT turn over the page until you are instructed to by the experimenter.

The Test Phase

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1. Solve: $36 \blacklozenge 1 =$	277
2. Solve: $18 \blacklozenge 3 =$	244
3. Solve: $18 \blacktriangleright 1 =$	341
4. Solve: $4 \blacktriangleright 2 =$	106
5. Solve: $3 \blacktriangleright 3 =$	302
6. Solve: $9 \blacktriangleright 3 =$	121
7. Solve: $9 \blacklozenge 9 =$	221
8. Solve: $28 \blacklozenge 2 =$	66
9. Solve: $3 \blacklozenge 3 =$	203
10. Solve: $20 \blacklozenge 2 =$	247
11. Solve: $26 \blacktriangleright 1 =$	160
12. Solve: $30 \blacktriangleright 1 =$	365
13. Solve: $7 \blacktriangleright 7 =$	313
14. Solve: $44 \blacklozenge 2 =$	290

15. Solve: $15 \blacktriangleright 5 =$	336
16. Solve: $38 \blacklozenge 2 =$	281
17. Solve: $33 \blacklozenge 3 =$	273
18. Solve: $49 \blacklozenge 1 =$	297
19. Solve: $34 \blacktriangleright 2 =$	374
20. Solve: $48 \diamond 1 =$	97
21. Solve: $25 \diamond 1 =$	60
22. Solve: $2 \blacklozenge 1 =$	200
23. Solve: $42 \diamond 2 =$	89
24. Solve: $23 \blacklozenge 1 =$	253
25. Solve: $18 \diamond 3 =$	46
26. Solve: $19 \diamond 1 =$	47
27. Solve: $30 \blacktriangleright 3 =$	169
28. Solve: $48 \blacktriangleright 2 =$	395
29. Solve: $29 \diamond 1 =$	67
30. Solve: $14 \diamond 7 =$	36

31. Solve: $37 \diamond 1 =$	81
32. Solve: $28 \triangleright 1 =$	164
33. Solve: $40 \diamond 1 =$	85
34. Solve: $5 \blacktriangleright 1 =$	306
35. Solve: $14 \blacktriangleright 2 =$	332
36. Solve: $36 \blacklozenge 2 =$	278
37. Solve: $28 \triangleright 2 =$	165
38. Solve: $18 \triangleright 3 =$	145
39. Solve: $43 \blacktriangleright 1 =$	387
40. Solve: $3 \triangleright 1 =$	103
41. Solve: $16 \diamond 4 =$	42
42. Solve: $38 \blacktriangleright 2 =$	380
43. Solve: $48 \diamond 2 =$	98
44. Solve: $37 \triangleright 1 =$	180
45. Solve: $9 \blacktriangleright 1 =$	318
46. Solve: $16 \triangleright 4 =$	141

47. Solve: $45 \blacklozenge 1 =$	291
48. Solve: $6 \triangleright 3 =$	112
49. Solve: $47 \blacklozenge 1 =$	294
50. Solve: $14 \blacklozenge 7 =$	234
51. Solve: $34 \triangleright 2 =$	176
52. Solve: $19 \triangleright 1 =$	146
53. Solve: $36 \blacktriangleright 2 =$	377
54. Solve: $3 \triangleright 3 =$	104
55. Solve: $30 \blacklozenge 3 =$	268
56. Solve: $12 \blacktriangleright 3 =$	327
57. Solve: $12 \blacktriangleright 4 =$	328
58. Solve: $2 \triangleright 1 =$	101
59. Solve: $30 \triangleright 1 =$	167
60. Solve: $17 \blacklozenge 1 =$	241
61. Solve: $4 \blacklozenge 1 =$	204
62. Solve: $34 \blacklozenge 1 =$	274

63. Solve: $48 \blacklozenge 2 =$	296
64. Solve: $13 \blacklozenge 1 =$	231
65. Solve: $12 \blacklozenge 2 =$	29
66. Solve: $3 \blacklozenge 1 =$	202
67. Solve: $36 \blacktriangleright 1 =$	178
68. Solve: $36 \blacktriangleright 2 =$	179
69. Solve: $27 \blacktriangleright 1 =$	360
70. Solve: $22 \blacktriangleright 2 =$	153
71. Solve: $27 \blacklozenge 3 =$	262
72. Solve: $18 \blacktriangleright 2 =$	342
73. Solve: $8 \blacklozenge 8 =$	218
74. Solve: $47 \blacklozenge 1 =$	96
75. Solve: $15 \blacktriangleright 5 =$	138
76. Solve: $39 \blacklozenge 1 =$	84
77. Solve: $10 \blacktriangleright 1 =$	321
78. Solve: $17 \blacktriangleright 1 =$	142

79. Solve: $40 \blacktriangleright 2 =$	383
80. Solve: $9 \diamond 9 =$	23
81. Solve: $14 \blacktriangleright 7 =$	333
82. Solve: $8 \blacktriangleright 4 =$	316
83. Solve: $9 \blacktriangleright 3 =$	319
84. Solve: $27 \triangleright 3 =$	163
85. Solve: $20 \blacktriangleright 4 =$	347
86. Solve: $16 \blacklozenge 4 =$	240
87. Solve: $13 \blacktriangleright 1 =$	330
88. Solve: $31 \blacktriangleright 1 =$	368
89. Solve: $6 \blacktriangleright 3 =$	310
90. Solve: $41 \blacklozenge 1 =$	285
91. Solve: $24 \blacklozenge 3 =$	256
92. Solve: $47 \triangleright 1 =$	195
93. Solve: $1 \blacklozenge 1 =$	199
94. Solve: $15 \triangleright 3 =$	137

95. Solve: $8 \diamond 1 =$	17
96. Solve: $5 \triangleright 1 =$	108
97. Solve: $25 \triangleright 1 =$	159
98. Solve: $27 \diamond 3 =$	64
99. Solve: $6 \diamond 3 =$	13
100. Solve: $46 \triangleright 2 =$	194
101. Solve: $27 \blacktriangleright 3 =$	361
102. Solve: $24 \blacklozenge 2 =$	255
103. Solve: $10 \blacklozenge 1 =$	222
104. Solve: $34 \diamond 1 =$	76
105. Solve: $33 \triangleright 3 =$	174
106. Solve: $40 \diamond 2 =$	86
107. Solve: $15 \triangleright 1 =$	136
108. Solve: $5 \triangleright 5 =$	109
109. Solve: $44 \diamond 1 =$	91
110. Solve: $10 \triangleright 5 =$	125

111. Solve: $6 \triangleright 1 =$	110
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112. Solve: $18 \triangleright 1 =$	143
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113. Solve: $1 \diamond 1 =$	1
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114. Solve: $14 \triangleright 2 =$	134
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115. Solve: $47 \blacktriangleright 1 =$	393
<hr/>	
116. Solve: $27 \triangleright 1 =$	162
<hr/>	
117. Solve: $31 \blacklozenge 1 =$	269
<hr/>	
118. Solve: $12 \blacklozenge 3 =$	228
<hr/>	
119. Solve: $38 \blacklozenge 1 =$	280
<hr/>	
120. Solve: $12 \blacklozenge 2 =$	227
<hr/>	
121. Solve: $11 \blacklozenge 1 =$	225
<hr/>	
122. Solve: $6 \blacklozenge 1 =$	209
<hr/>	
123. Solve: $28 \blacktriangleright 1 =$	362
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124. Solve: $6 \diamond 1 =$	11
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125. Solve: $17 \diamond 1 =$	43
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126. Solve: $40 \blacklozenge 1 =$	283
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127. Solve: $21 \blacklozenge 3 =$ 250

128. Solve: $30 \blacklozenge 1 =$ 68

129. Solve: $14 \blacklozenge 2 =$ 233

130. Solve: $44 \blacktriangleright 1 =$ 190

131. Solve: $3 \blacktriangleright 1 =$ 301

132. Solve: $5 \blacklozenge 5 =$ 10

133. Solve: $7 \blacktriangleright 1 =$ 312

134. Solve: $15 \blacklozenge 1 =$ 235

135. Solve: $1 \blacktriangleright 1 =$ 100

136. Solve: $6 \blacktriangleright 1 =$ 308

137. Solve: $22 \blacktriangleright 2 =$ 351

138. Solve: $20 \blacktriangleright 1 =$ 345

139. Solve: $3 \blacklozenge 1 =$ 4

140. Solve: $9 \blacktriangleright 9 =$ 122

141. Solve: $30 \blacktriangleright 2 =$ 366

142. Solve: $42 \blacklozenge 1 =$ 88

143. Solve: $10 \triangleright 1 =$ 123

144. Solve: $25 \blacktriangleright 1 =$ 357

145. Solve: $45 \blacktriangleright 1 =$ 390

146. Solve: $6 \blacklozenge 2 =$ 210

147. Solve: $4 \diamond 4 =$ 8

148. Solve: $15 \diamond 1 =$ 37

149. Solve: $5 \blacklozenge 1 =$ 207

150. Solve: $26 \triangleright 2 =$ 161

151. Solve: $8 \blacklozenge 1 =$ 215

152. Solve: $44 \blacklozenge 1 =$ 289

153. Solve: $26 \blacktriangleright 2 =$ 359

154. Solve: $10 \triangleright 2 =$ 124

155. Solve: $3 \diamond 3 =$ 5

156. Solve: $8 \blacktriangleright 2 =$ 315

157. Solve: $8 \blacklozenge 4 =$ 217

158. Solve: $31 \diamond 1 =$ 71

159. Solve: $20 \blacklozenge 1 =$	246
160. Solve: $2 \blacktriangleright 2 =$	300
161. Solve: $24 \diamond 2 =$	57
162. Solve: $32 \diamond 1 =$	72
163. Solve: $5 \blacklozenge 5 =$	208
164. Solve: $9 \blacktriangleright 9 =$	320
165. Solve: $12 \blacktriangleright 1 =$	325
166. Solve: $8 \diamond 2 =$	18
167. Solve: $14 \blacktriangleright 1 =$	133
168. Solve: $15 \blacklozenge 3 =$	236
169. Solve: $9 \diamond 1 =$	21
170. Solve: $6 \blacktriangleright 6 =$	113
171. Solve: $6 \diamond 2 =$	12
172. Solve: $48 \blacktriangleright 1 =$	196
173. Solve: $43 \blacktriangleright 1 =$	189
174. Solve: $26 \blacktriangleright 1 =$	358

175. Solve: $12 \blacktriangleright 2 =$	326
176. Solve: $16 \diamond 2 =$	41
177. Solve: $24 \diamond 4 =$	59
178. Solve: $2 \blacklozenge 2 =$	201
179. Solve: $2 \diamond 2 =$	001
180. Solve: $26 \diamond 2 =$	62
181. Solve: $4 \blacklozenge 2 =$	205
182. Solve: $24 \blacktriangleright 4 =$	356
183. Solve: $14 \triangleright 7 =$	135
184. Solve: $46 \blacktriangleright 2 =$	392
185. Solve: $33 \blacktriangleright 1 =$	371
186. Solve: $35 \blacklozenge 1 =$	276
187. Solve: $42 \triangleright 1 =$	187
188. Solve: $37 \blacktriangleright 1 =$	378
189. Solve: $8 \triangleright 4 =$	118
190. Solve: $16 \blacklozenge 1 =$	238

191. Solve: $36 \diamond 1 =$	79
192. Solve: $14 \blacklozenge 1 =$	232
193. Solve: $21 \blacktriangleright 1 =$	348
194. Solve: $26 \diamond 1 =$	61
195. Solve: $12 \blacklozenge 6 =$	230
196. Solve: $22 \blacktriangleright 1 =$	350
197. Solve: $21 \triangleright 3 =$	151
198. Solve: $2 \diamond 1 =$	2
199. Solve: $24 \diamond 3 =$	58
200. Solve: $7 \blacklozenge 1 =$	213
201. Solve: $29 \blacklozenge 1 =$	265
202. Solve: $24 \diamond 1 =$	56
203. Solve: $13 \triangleright 1 =$	132
204. Solve: $22 \blacklozenge 2 =$	252
205. Solve: $46 \blacklozenge 2 =$	293
206. Solve: $13 \diamond 1 =$	33

207. Solve: $30 \blacktriangleright 3 =$	367
208. Solve: $35 \triangleright 1 =$	177
209. Solve: $12 \diamond 6 =$	32
210. Solve: $49 \diamond 1 =$	99
211. Solve: $22 \diamond 2 =$	54
212. Solve: $12 \diamond 3 =$	30
213. Solve: $41 \triangleright 1 =$	186
214. Solve: $20 \blacklozenge 4 =$	248
215. Solve: $18 \triangleright 2 =$	144
216. Solve: $29 \blacktriangleright 1 =$	364
217. Solve: $11 \triangleright 1 =$	126
218. Solve: $28 \blacklozenge 1 =$	263
219. Solve: $4 \blacktriangleright 1 =$	303
220. Solve: $21 \triangleright 1 =$	150
221. Solve: $33 \blacktriangleright 3 =$	372
222. Solve: $16 \blacktriangleright 1 =$	337

223. Solve: $20 \triangleright 2 =$ 148

224. Solve: $18 \blacklozenge 2 =$ 243

225. Solve: $24 \blacklozenge 1 =$ 254

226. Solve: $9 \diamond 3 =$ 22

227. Solve: $12 \triangleright 1 =$ 127

228. Solve: $21 \diamond 3 =$ 52

229. Solve: $15 \diamond 5 =$ 39

230. Solve: $10 \blacklozenge 5 =$ 224

231. Solve: $15 \blacktriangleright 3 =$ 335

232. Solve: $23 \diamond 1 =$ 55

233. Solve: $34 \blacklozenge 2 =$ 275

234. Solve: $5 \blacktriangleright 5 =$ 307

235. Solve: $28 \blacklozenge 2 =$ 264

236. Solve: $10 \diamond 5 =$ 26

237. Solve: $16 \blacktriangleright 2 =$ 338

238. Solve: $38 \triangleright 1 =$ 181

239. Solve: $15 \blacktriangleright 1 =$ 334

240. Solve: $4 \blacktriangleright 1 =$ 105

241. Solve: $8 \blacklozenge 2 =$ 216

242. Solve: $16 \blacklozenge 1 =$ 40

243. Solve: $41 \blacktriangleright 1 =$ 384

244. Solve: $32 \blacktriangleright 2 =$ 172

245. Solve: $42 \blacklozenge 1 =$ 286

246. Solve: $29 \blacktriangleright 1 =$ 166

247. Solve: $10 \blacktriangleright 2 =$ 322

248. Solve: $9 \blacklozenge 3 =$ 220

249. Solve: $32 \blacktriangleright 1 =$ 369

250. Solve: $18 \blacktriangleright 3 =$ 343

251. Solve: $39 \blacktriangleright 1 =$ 183

252. Solve: $20 \blacklozenge 2 =$ 49

253. Solve: $45 \blacklozenge 1 =$ 93

254. Solve: $7 \blacklozenge 7 =$ 214

255. Solve: $20 \blacktriangleright 2 =$ 346

256. Solve: $12 \triangleright 2 =$ 128

257. Solve: $38 \diamond 1 =$ 82

258. Solve: $8 \diamond 4 =$ 19

259. Solve: $40 \blacktriangleright 1 =$ 382

260. Solve: $32 \blacklozenge 2 =$ 271

261. Solve: $46 \diamond 1 =$ 94

262. Solve: $22 \diamond 1 =$ 53

263. Solve: $16 \blacklozenge 2 =$ 239

264. Solve: $12 \blacktriangleright 6 =$ 329

265. Solve: $35 \diamond 1 =$ 78

266. Solve: $33 \blacklozenge 1 =$ 272

267. Solve: $43 \diamond 1 =$ 90

268. Solve: $44 \diamond 2 =$ 92

269. Solve: $12 \blacklozenge 4 =$ 229

270. Solve: $46 \blacktriangleright 1 =$ 391

271. Solve: $10 \blacklozenge 2 =$	223
272. Solve: $48 \blacklozenge 1 =$	295
273. Solve: $41 \diamond 1 =$	87
274. Solve: $9 \blacklozenge 1 =$	219
275. Solve: $8 \blacktriangleright 2 =$	117
276. Solve: $30 \diamond 2 =$	69
277. Solve: $20 \diamond 1 =$	48
278. Solve: $40 \blacklozenge 2 =$	284
279. Solve: $46 \diamond 2 =$	95
280. Solve: $4 \diamond 2 =$	7
281. Solve: $42 \blacklozenge 2 =$	287
282. Solve: $7 \diamond 1 =$	15
283. Solve: $16 \blacktriangleright 4 =$	339
284. Solve: $22 \blacklozenge 1 =$	251
285. Solve: $5 \diamond 1 =$	9
286. Solve: $46 \blacktriangleright 1 =$	193

287. Solve: $27 \blacklozenge 1 =$	261
288. Solve: $7 \diamond 7 =$	16
289. Solve: $30 \diamond 3 =$	70
290. Solve: $2 \triangleright 2 =$	102
291. Solve: $18 \diamond 2 =$	45
292. Solve: $21 \blacktriangleright 3 =$	349
293. Solve: $8 \diamond 8 =$	20
294. Solve: $24 \blacktriangleright 2 =$	354
295. Solve: $34 \triangleright 1 =$	175
296. Solve: $34 \blacktriangleright 1 =$	373
297. Solve: $6 \blacklozenge 6 =$	212
298. Solve: $48 \triangleright 2 =$	197
299. Solve: $36 \diamond 2 =$	80
300. Solve: $48 \blacktriangleright 1 =$	394
301. Solve: $35 \blacktriangleright 1 =$	375
302. Solve: $21 \blacklozenge 1 =$	249

303. Solve: $10 \blacktriangleright 5 =$	323
304. Solve: $8 \triangleright 1 =$	116
305. Solve: $15 \diamond 3 =$	38
306. Solve: $39 \blacktriangleright 1 =$	381
307. Solve: $10 \diamond 2 =$	25
308. Solve: $16 \triangleright 1 =$	139
309. Solve: $42 \blacktriangleright 2 =$	386
310. Solve: $16 \triangleright 2 =$	140
311. Solve: $24 \triangleright 2 =$	156
312. Solve: $38 \blacktriangleright 1 =$	379
313. Solve: $28 \diamond 1 =$	65
314. Solve: $39 \blacklozenge 1 =$	282
315. Solve: $8 \triangleright 8 =$	119
316. Solve: $33 \diamond 3 =$	75
317. Solve: $32 \blacklozenge 1 =$	270
318. Solve: $6 \blacktriangleright 6 =$	311

319. Solve: $46 \blacklozenge 1 =$	292
320. Solve: $8 \blacktriangleright 8 =$	317
321. Solve: $12 \diamond 4 =$	31
322. Solve: $14 \diamond 1 =$	34
323. Solve: $26 \blacklozenge 2 =$	260
324. Solve: $20 \blacktriangleright 4 =$	149
325. Solve: $12 \blacktriangleright 6 =$	131
326. Solve: $12 \blacktriangleright 3 =$	129
327. Solve: $6 \blacklozenge 3 =$	211
328. Solve: $44 \blacktriangleright 2 =$	389
329. Solve: $12 \diamond 1 =$	28
330. Solve: $24 \blacklozenge 4 =$	257
331. Solve: $26 \blacklozenge 1 =$	259
332. Solve: $18 \blacklozenge 1 =$	242
333. Solve: $22 \blacktriangleright 1 =$	152
334. Solve: $2 \blacktriangleright 1 =$	299

335. Solve: $31 \triangleright 1 =$ 170

336. Solve: $38 \triangleright 2 =$ 182

337. Solve: $43 \blacklozenge 1 =$ 288

338. Solve: $36 \blacktriangleright 1 =$ 376

339. Solve: $40 \triangleright 1 =$ 184

340. Solve: $15 \blacklozenge 5 =$ 237

341. Solve: $4 \blacklozenge 4 =$ 206

342. Solve: $23 \triangleright 1 =$ 154

343. Solve: $1 \blacktriangleright 1 =$ 298

344. Solve: $19 \blacktriangleright 1 =$ 344

345. Solve: $12 \blacklozenge 1 =$ 226

346. Solve: $6 \blacktriangleright 2 =$ 309

347. Solve: $20 \diamond 4 =$ 50

348. Solve: $4 \triangleright 4 =$ 107

349. Solve: $23 \blacktriangleright 1 =$ 352

350. Solve: $32 \blacktriangleright 2 =$ 370

351. Solve: $11 \blacktriangleright 1 =$	324
352. Solve: $12 \triangleright 4 =$	130
353. Solve: $49 \triangleright 1 =$	198
354. Solve: $32 \triangleright 1 =$	171
355. Solve: $44 \triangleright 2 =$	191
356. Solve: $4 \blacktriangleright 2 =$	304
357. Solve: $10 \diamond 1 =$	24
358. Solve: $27 \diamond 1 =$	63
359. Solve: $28 \blacktriangleright 2 =$	363
360. Solve: $4 \diamond 1 =$	6
361. Solve: $45 \triangleright 1 =$	192
362. Solve: $42 \blacktriangleright 1 =$	385
363. Solve: $42 \triangleright 2 =$	188
364. Solve: $7 \triangleright 1 =$	114
365. Solve: $7 \triangleright 7 =$	115
366. Solve: $18 \diamond 1 =$	44

367. Solve: $30 \blacklozenge 2 =$	267
368. Solve: $2 \diamond 2 =$	3
369. Solve: $34 \diamond 2 =$	77
370. Solve: $44 \blacktriangleright 1 =$	388
371. Solve: $33 \triangleright 1 =$	173
372. Solve: $40 \triangleright 2 =$	185
373. Solve: $14 \blacktriangleright 1 =$	331
374. Solve: $6 \triangleright 2 =$	111
375. Solve: $4 \blacktriangleright 4 =$	305
376. Solve: $9 \triangleright 1 =$	120
377. Solve: $20 \triangleright 1 =$	147
378. Solve: $37 \blacklozenge 1 =$	279
379. Solve: $33 \diamond 1 =$	74
380. Solve: $21 \diamond 1 =$	51
381. Solve: $24 \blacktriangleright 3 =$	355
382. Solve: $24 \triangleright 4 =$	158

383. Solve: $11 \diamond 1 =$	27
384. Solve: $24 \triangleright 3 =$	157
385. Solve: $30 \triangleright 2 =$	168
386. Solve: $24 \triangleright 1 =$	155
387. Solve: $32 \diamond 2 =$	73
388. Solve: $14 \diamond 2 =$	35
389. Solve: $19 \blacklozenge 1 =$	245
390. Solve: $8 \blacktriangleright 1 =$	314
391. Solve: $24 \blacktriangleright 1 =$	353
392. Solve: $49 \blacktriangleright 1 =$	396
393. Solve: $6 \diamond 6 =$	14
394. Solve: $38 \diamond 2 =$	83
395. Solve: $30 \blacklozenge 1 =$	266
396. Solve: $25 \blacklozenge 1 =$	258
397. Solve: $17 \blacktriangleright 1 =$	340

This is the end of the experiment. Thank you very much for taking part.