Greatest Common Factor (A)

Name: _____

Date: _____

Use the prime factors of the numbers in each set to calculate the greatest common factor.

a) $248 = ②×②×②×31$

$200 = ②×②×②×5×5$

$\textcolor{red}{GCF = ②×②×② = 8}$

b) 340

304

c) 260

348

d) 387

225

e) 338

234

f) 388

288

g) 288

210

h) 344

356

i) 318

282

j) 270

333

Greatest Common Factor (A) Answers

Name: _____

Date: _____

Use the prime factors of the numbers in each set to calculate the greatest common factor.

a) $248 = ②\times②\times②\times31$

$200 = ②\times②\times②\times5\times5$

$\text{GCF} = ②\times②\times② = 8$

b) $340 = ②\times②\times5\times17$

$304 = ②\times②\times2\times2\times19$

$\text{GCF} = ②\times② = 4$

c) $260 = ②\times②\times5\times13$

$348 = ②\times②\times3\times29$

$\text{GCF} = ②\times② = 4$

d) $387 = ③\times③\times43$

$225 = ③\times③\times5\times5$

$\text{GCF} = ③\times③ = 9$

e) $338 = ②\times⑬\times13$

$234 = ②\times3\times3\times⑬$

$\text{GCF} = ②\times⑬ = 26$

f) $388 = ②\times②\times97$

$288 = ②\times②\times2\times2\times2\times3\times3$

$\text{GCF} = ②\times② = 4$

g) $288 = ②\times2\times2\times2\times2\times③\times3$

$210 = ②\times③\times5\times7$

$\text{GCF} = ②\times③ = 6$

h) $344 = ②\times②\times2\times43$

$356 = ②\times②\times89$

$\text{GCF} = ②\times② = 4$

i) $318 = ②\times③\times53$

$282 = ②\times③\times47$

$\text{GCF} = ②\times③ = 6$

j) $270 = 2\times③\times③\times3\times5$

$333 = ③\times③\times37$

$\text{GCF} = ③\times③ = 9$

Math-Drills.com