

Greatest Common Factor (D)

Name: _____

Date: _____

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

a) $150 = 2 \times 3 \times 5 \times 5$

b) 36

$204 = 2 \times 2 \times 3 \times 17$

304

$GCF = 2 \times 3 = 6$

c) 306

d) 78

366

240

e) 279

f) 21

351

357

g) 128

h) 360

200

222

i) 312

j) 189

100

243

Greatest Common Factor (D) Answers

Name: _____

Date: _____

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

a) $150 = 2 \times 3 \times 5 \times 5$

$204 = 2 \times 2 \times 3 \times 17$

$GCF = 2 \times 3 = 6$

b) $36 = 2 \times 2 \times 3 \times 3$

$304 = 2 \times 2 \times 2 \times 2 \times 19$

$GCF = 2 \times 2 = 4$

c) $306 = 2 \times 3 \times 3 \times 17$

$366 = 2 \times 3 \times 61$

$GCF = 2 \times 3 = 6$

d) $78 = 2 \times 3 \times 13$

$240 = 2 \times 2 \times 2 \times 2 \times 3 \times 5$

$GCF = 2 \times 3 = 6$

e) $279 = 3 \times 3 \times 31$

$351 = 3 \times 3 \times 3 \times 13$

$GCF = 3 \times 3 = 9$

f) $21 = 3 \times 7$

$357 = 3 \times 7 \times 17$

$GCF = 3 \times 7 = 21$

g) $128 = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$

$200 = 2 \times 2 \times 2 \times 5 \times 5$

$GCF = 2 \times 2 \times 2 = 8$

h) $360 = 2 \times 2 \times 2 \times 3 \times 3 \times 5$

$222 = 2 \times 3 \times 37$

$GCF = 2 \times 3 = 6$

i) $312 = 2 \times 2 \times 2 \times 3 \times 13$

$100 = 2 \times 2 \times 5 \times 5$

$GCF = 2 \times 2 = 4$

j) $189 = 3 \times 3 \times 3 \times 7$

$243 = 3 \times 3 \times 3 \times 3 \times 3$

$GCF = 3 \times 3 \times 3 = 27$