

Greatest Common Factor (B)

Name: _____

Date: _____

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

a) $190 = 2 \times 5 \times 19$

b) 66

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

192

GCF = $2 \times 5 = 10$

c) 270

d) 72

297

120

e) 150

f) 234

48

252

g) 234

h) 30

18

168

i) 124

j) 248

84

192

Greatest Common Factor (B) Answers

Name: _____

Date: _____

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

a) $190 = 2 \times 5 \times 19$

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

$GCF = 2 \times 5 = 10$

b) $66 = 2 \times 3 \times 11$

$192 = 2 \times 2 \times 2 \times 2 \times 2 \times 3$

$GCF = 2 \times 3 = 6$

c) $270 = 2 \times 3 \times 3 \times 3 \times 5$

$297 = 3 \times 3 \times 3 \times 11$

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

d) $72 = 2 \times 2 \times 2 \times 3 \times 3$

$120 = 2 \times 2 \times 2 \times 3 \times 5$

$GCF = 2 \times 2 \times 2 \times 3 = 24$

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

$48 = 2 \times 2 \times 2 \times 2 \times 3$

$GCF = 2 \times 3 = 6$

f) $234 = 2 \times 3 \times 3 \times 13$

$252 = 2 \times 2 \times 3 \times 3 \times 7$

$GCF = 2 \times 3 \times 3 = 18$

g) $234 = 2 \times 3 \times 3 \times 13$

$18 = 2 \times 3 \times 3$

$GCF = 2 \times 3 \times 3 = 18$

h) $30 = 2 \times 3 \times 5$

$168 = 2 \times 2 \times 2 \times 3 \times 7$

$GCF = 2 \times 3 = 6$

i) $124 = 2 \times 2 \times 31$

$84 = 2 \times 2 \times 3 \times 7$

$GCF = 2 \times 2 = 4$

j) $248 = 2 \times 2 \times 2 \times 31$

$192 = 2 \times 2 \times 2 \times 2 \times 2 \times 3$

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