

Greatest Common Factor (A)

Name: _____

Date: _____

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

a) $396 = 2 \times 2 \times 3 \times 3 \times 11$

b) 297

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

135

$GCF = 2 \times 2 \times 3 = 12$

c) 144

d) 186

68

288

e) 48

f) 76

306

108

g) 322

h) 72

98

78

i) 200

j) 44

190

4

Greatest Common Factor (A) Answers

Name: _____

Date: _____

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

a) $396 = 2 \times 2 \times 3 \times 3 \times 11$

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

$GCF = 2 \times 2 \times 3 = 12$

b) $297 = 3 \times 3 \times 3 \times 11$

$135 = 3 \times 3 \times 3 \times 5$

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

c) $144 = 2 \times 2 \times 2 \times 2 \times 3 \times 3$

$68 = 2 \times 2 \times 17$

$GCF = 2 \times 2 = 4$

d) $186 = 2 \times 3 \times 31$

$288 = 2 \times 2 \times 2 \times 2 \times 2 \times 3 \times 3$

$GCF = 2 \times 3 = 6$

e) $48 = 2 \times 2 \times 2 \times 2 \times 3$

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

$GCF = 2 \times 3 = 6$

f) $76 = 2 \times 2 \times 19$

$108 = 2 \times 2 \times 3 \times 3 \times 3$

$GCF = 2 \times 2 = 4$

g) $322 = 2 \times 7 \times 23$

$98 = 2 \times 7 \times 7$

$GCF = 2 \times 7 = 14$

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

$78 = 2 \times 3 \times 13$

$GCF = 2 \times 3 = 6$

i) $200 = 2 \times 2 \times 2 \times 5 \times 5$

$190 = 2 \times 5 \times 19$

$GCF = 2 \times 5 = 10$

j) $44 = 2 \times 2 \times 11$

$4 = 2 \times 2$

$GCF = 2 \times 2 = 4$