

# Greatest Common Factor (I)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

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

a)  $140 = 2 \times 2 \times 5 \times 7$

b) 154

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

168

$GCF = 2 \times 5 = 10$

c) 102

d) 156

162

148

e) 186

f) 128

132

156

g) 189

h) 160

135

148

i) 190

j) 195

160

180

# Greatest Common Factor (I) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

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

a)  $140 = 2 \times 2 \times 5 \times 7$

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

$GCF = 2 \times 5 = 10$

b)  $154 = 2 \times 7 \times 11$

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

$GCF = 2 \times 7 = 14$

c)  $102 = 2 \times 3 \times 17$

$162 = 2 \times 3 \times 3 \times 3 \times 3$

$GCF = 2 \times 3 = 6$

d)  $156 = 2 \times 2 \times 3 \times 13$

$148 = 2 \times 2 \times 37$

$GCF = 2 \times 2 = 4$

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

$132 = 2 \times 2 \times 3 \times 11$

$GCF = 2 \times 3 = 6$

f)  $128 = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$

$156 = 2 \times 2 \times 3 \times 13$

$GCF = 2 \times 2 = 4$

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

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

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

h)  $160 = 2 \times 2 \times 2 \times 2 \times 5$

$148 = 2 \times 2 \times 37$

$GCF = 2 \times 2 = 4$

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

$160 = 2 \times 2 \times 2 \times 2 \times 2 \times 5$

$GCF = 2 \times 5 = 10$

j)  $195 = 3 \times 5 \times 13$

$180 = 2 \times 2 \times 3 \times 3 \times 5$

$GCF = 3 \times 5 = 15$