

# Greatest Common Factor (H)

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

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

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

a)  $126 = 2 \times 3 \times 3 \times 7$

b) 54

$63 = 3 \times 3 \times 7$

390

$GCF = 3 \times 3 \times 7 = 63$

c) 210

d) 52

375

284

e) 39

f) 56

195

156

g) 54

h) 260

138

50

i) 304

j) 66

112

231

# Greatest Common Factor (H) Answers

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

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

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

a)  $126 = 2 \times (3) \times (3) \times (7)$

$63 = (3) \times (3) \times (7)$

$GCF = (3) \times (3) \times (7) = 63$

b)  $54 = (2) \times (3) \times 3 \times 3$

$390 = (2) \times (3) \times 5 \times 13$

$GCF = (2) \times (3) = 6$

c)  $210 = 2 \times (3) \times (5) \times 7$

$375 = (3) \times (5) \times 5 \times 5$

$GCF = (3) \times (5) = 15$

d)  $52 = (2) \times (2) \times 13$

$284 = (2) \times (2) \times 71$

$GCF = (2) \times (2) = 4$

e)  $39 = (3) \times (13)$

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

$GCF = (3) \times (13) = 39$

f)  $56 = (2) \times (2) \times 2 \times 7$

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

$GCF = (2) \times (2) = 4$

g)  $54 = (2) \times (3) \times 3 \times 3$

$138 = (2) \times (3) \times 23$

$GCF = (2) \times (3) = 6$

h)  $260 = (2) \times 2 \times (5) \times 13$

$50 = (2) \times (5) \times 5$

$GCF = (2) \times (5) = 10$

i)  $304 = (2) \times (2) \times (2) \times (2) \times 19$

$112 = (2) \times (2) \times (2) \times (2) \times 7$

$GCF = (2) \times (2) \times (2) \times (2) = 16$

j)  $66 = 2 \times (3) \times (11)$

$231 = (3) \times 7 \times (11)$

$GCF = (3) \times (11) = 33$