

# Greatest Common Factor (H)

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

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

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

a)  $104 = 2 \times 2 \times 2 \times 13$

b) 184

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

108

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

c) 104

d) 160

116

124

e) 104

f) 170

152

150

g) 124

h) 114

168

180

i) 110

j) 102

190

180

# Greatest Common Factor (H) Answers

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

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

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

a)  $104 = 2 \times 2 \times 2 \times 13$

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

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

b)  $184 = 2 \times 2 \times 2 \times 23$

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

$GCF = 2 \times 2 = 4$

c)  $104 = 2 \times 2 \times 2 \times 13$

$116 = 2 \times 2 \times 29$

$GCF = 2 \times 2 = 4$

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

$124 = 2 \times 2 \times 31$

$GCF = 2 \times 2 = 4$

e)  $104 = 2 \times 2 \times 2 \times 13$

$152 = 2 \times 2 \times 2 \times 19$

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

f)  $170 = 2 \times 5 \times 17$

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

$GCF = 2 \times 5 = 10$

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

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

$GCF = 2 \times 2 = 4$

h)  $114 = 2 \times 3 \times 19$

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

$GCF = 2 \times 3 = 6$

i)  $110 = 2 \times 5 \times 11$

$190 = 2 \times 5 \times 19$

$GCF = 2 \times 5 = 10$

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

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

$GCF = 2 \times 3 = 6$