

Greatest Common Factor (C)

Name: _____

Date: _____

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

a) $192 = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 3$

b) 180

$116 = 2 \times 2 \times 29$

138

$GCF = 2 \times 2 = 4$

c) 136

d) 110

100

176

e) 138

f) 192

150

140

g) 100

h) 140

190

130

i) 126

j) 154

135

112

Greatest Common Factor (C) Answers

Name: _____

Date: _____

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

a) $192 = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 3$

$116 = 2 \times 2 \times 29$

$GCF = 2 \times 2 = 4$

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

$138 = 2 \times 3 \times 23$

$GCF = 2 \times 3 = 6$

c) $136 = 2 \times 2 \times 2 \times 17$

$100 = 2 \times 2 \times 5 \times 5$

$GCF = 2 \times 2 = 4$

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

$176 = 2 \times 2 \times 2 \times 2 \times 11$

$GCF = 2 \times 11 = 22$

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

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

$GCF = 2 \times 3 = 6$

f) $192 = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 3$

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

$GCF = 2 \times 2 = 4$

g) $100 = 2 \times 2 \times 5 \times 5$

$190 = 2 \times 5 \times 19$

$GCF = 2 \times 5 = 10$

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

$130 = 2 \times 5 \times 13$

$GCF = 2 \times 5 = 10$

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

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

$GCF = 3 \times 3 = 9$

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

$112 = 2 \times 2 \times 2 \times 2 \times 7$

$GCF = 2 \times 7 = 14$