

Greatest Common Factor (B)

Name: _____

Date: _____

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

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

b) 132

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

165

$GCF = 2 \times 3 = 6$

c) 108

d) 144

100

180

e) 124

f) 192

132

198

g) 192

h) 140

168

116

i) 105

j) 160

135

200

Greatest Common Factor (B) Answers

Name: _____

Date: _____

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

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

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

$GCF = 2 \times 3 = 6$

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

$165 = 3 \times 5 \times 11$

$GCF = 3 \times 11 = 33$

c) $108 = 2 \times 2 \times 3 \times 3 \times 3$

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

$GCF = 2 \times 2 = 4$

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

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

$GCF = 2 \times 2 \times 3 \times 3 = 36$

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

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

$GCF = 2 \times 2 = 4$

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

$198 = 2 \times 3 \times 3 \times 11$

$GCF = 2 \times 3 = 6$

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

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

$GCF = 2 \times 2 \times 2 \times 3 = 24$

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

$116 = 2 \times 2 \times 29$

$GCF = 2 \times 2 = 4$

i) $105 = 3 \times 5 \times 7$

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

$GCF = 3 \times 5 = 15$

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

$200 = 2 \times 2 \times 2 \times 5 \times 5$

$GCF = 2 \times 2 \times 2 \times 5 = 40$