

Greatest Common Factor (A)

Name: _____

Date: _____

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

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

b) 182

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

156

$GCF = 2 \times 7 = 14$

c) 132

d) 120

112

112

e) 168

f) 150

112

114

g) 104

h) 176

120

156

i) 116

j) 190

184

180

Greatest Common Factor (A) Answers

Name: _____

Date: _____

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

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

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

$GCF = 2 \times 7 = 14$

b) $182 = 2 \times 7 \times 13$

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

$GCF = 2 \times 13 = 26$

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

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

$GCF = 2 \times 2 = 4$

d) $120 = 2 \times 2 \times 2 \times 3 \times 5$

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

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

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

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

$GCF = 2 \times 2 \times 2 \times 7 = 56$

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

$114 = 2 \times 3 \times 19$

$GCF = 2 \times 3 = 6$

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

$120 = 2 \times 2 \times 2 \times 3 \times 5$

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

h) $176 = 2 \times 2 \times 2 \times 2 \times 11$

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

$GCF = 2 \times 2 = 4$

i) $116 = 2 \times 2 \times 29$

$184 = 2 \times 2 \times 2 \times 23$

$GCF = 2 \times 2 = 4$

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

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

$GCF = 2 \times 5 = 10$

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

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

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

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

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

$GCF = 2 \times 7 = 14$

Greatest Common Factor (D)

Name: _____

Date: _____

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

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

b) 188

$144 = 2 \times 2 \times 2 \times 2 \times 3 \times 3$

112

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

c) 171

d) 100

198

120

e) 116

f) 105

124

175

g) 156

h) 140

186

110

i) 135

j) 186

165

138

Greatest Common Factor (D) Answers

Name: _____

Date: _____

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

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

$144 = 2 \times 2 \times 2 \times 2 \times 3 \times 3$

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

b) $188 = 2 \times 2 \times 47$

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

$GCF = 2 \times 2 = 4$

c) $171 = 3 \times 3 \times 19$

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

$GCF = 3 \times 3 = 9$

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

$120 = 2 \times 2 \times 2 \times 3 \times 5$

$GCF = 2 \times 2 \times 5 = 20$

e) $116 = 2 \times 2 \times 29$

$124 = 2 \times 2 \times 31$

$GCF = 2 \times 2 = 4$

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

$175 = 5 \times 5 \times 7$

$GCF = 5 \times 7 = 35$

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

$186 = 2 \times 3 \times 31$

$GCF = 2 \times 3 = 6$

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

$110 = 2 \times 5 \times 11$

$GCF = 2 \times 5 = 10$

i) $135 = 3 \times 3 \times 3 \times 5$

$165 = 3 \times 5 \times 11$

$GCF = 3 \times 5 = 15$

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

$138 = 2 \times 3 \times 23$

$GCF = 2 \times 3 = 6$

Greatest Common Factor (E)

Name: _____

Date: _____

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

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

b) 100

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

180

$GCF = 2 \times 2 = 4$

c) 112

d) 132

104

200

e) 192

f) 144

128

198

g) 100

h) 117

150

126

i) 140

j) 180

148

189

Greatest Common Factor (E) Answers

Name: _____

Date: _____

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

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

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

$GCF = 2 \times 2 = 4$

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

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

$GCF = 2 \times 2 \times 5 = 20$

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

$104 = 2 \times 2 \times 2 \times 13$

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

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

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

$GCF = 2 \times 2 = 4$

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

$128 = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$

$GCF = 2 \times 2 \times 2 \times 2 \times 2 \times 2 = 64$

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

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

$GCF = 2 \times 3 \times 3 = 18$

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

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

$GCF = 2 \times 5 \times 5 = 50$

h) $117 = 3 \times 3 \times 13$

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

$GCF = 3 \times 3 = 9$

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

$148 = 2 \times 2 \times 37$

$GCF = 2 \times 2 = 4$

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

$189 = 3 \times 3 \times 3 \times 7$

$GCF = 3 \times 3 = 9$

Greatest Common Factor (F)

Name: _____

Date: _____

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

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

b) 184

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

128

GCF = $2 \times 3 = 6$

c) 180

d) 176

117

168

e) 184

f) 172

144

164

g) 192

h) 117

136

144

i) 200

j) 114

190

168

Greatest Common Factor (F) Answers

Name: _____

Date: _____

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

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

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

$GCF = 2 \times 3 = 6$

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

$128 = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$

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

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

$117 = 3 \times 3 \times 13$

$GCF = 3 \times 3 = 9$

d) $176 = 2 \times 2 \times 2 \times 2 \times 11$

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

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

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

$144 = 2 \times 2 \times 2 \times 2 \times 3 \times 3$

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

f) $172 = 2 \times 2 \times 43$

$164 = 2 \times 2 \times 41$

$GCF = 2 \times 2 = 4$

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

$136 = 2 \times 2 \times 2 \times 17$

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

h) $117 = 3 \times 3 \times 13$

$144 = 2 \times 2 \times 2 \times 2 \times 3 \times 3$

$GCF = 3 \times 3 = 9$

i) $200 = 2 \times 2 \times 2 \times 5 \times 5$

$190 = 2 \times 5 \times 19$

$GCF = 2 \times 5 = 10$

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

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

$GCF = 2 \times 3 = 6$

Greatest Common Factor (G)

Name: _____

Date: _____

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

a) $128 = \textcircled{2} \times \textcircled{2} \times \textcircled{2} \times \textcircled{2} \times \textcircled{2} \times \textcircled{2} \times \textcircled{2} \times 2$ b) 100

$192 = \textcircled{2} \times \textcircled{2} \times \textcircled{2} \times \textcircled{2} \times \textcircled{2} \times \textcircled{2} \times 3$ 184

$\text{GCF} = \textcircled{2} \times \textcircled{2} \times \textcircled{2} \times \textcircled{2} \times \textcircled{2} \times \textcircled{2} = 64$

c) 189

171

d) 160

152

e) 112

196

f) 100

112

g) 176

152

h) 108

160

i) 150

156

j) 174

126

Greatest Common Factor (G) Answers

Name: _____

Date: _____

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

a) $128 = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$ b) $100 = 2 \times 2 \times 5 \times 5$

$192 = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 3$ $184 = 2 \times 2 \times 2 \times 23$

$GCF = 2 \times 2 \times 2 \times 2 \times 2 \times 2 = 64$ $GCF = 2 \times 2 = 4$

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

$171 = 3 \times 3 \times 19$

$GCF = 3 \times 3 = 9$

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

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

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

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

$196 = 2 \times 2 \times 7 \times 7$

$GCF = 2 \times 2 \times 7 = 28$

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

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

$GCF = 2 \times 2 = 4$

g) $176 = 2 \times 2 \times 2 \times 2 \times 11$

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

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

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

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

$GCF = 2 \times 2 = 4$

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

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

$GCF = 2 \times 3 = 6$

j) $174 = 2 \times 3 \times 29$

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

$GCF = 2 \times 3 = 6$

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

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

$GCF = 2 \times 3 = 6$

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

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

$GCF = 2 \times 5 = 10$

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

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

$GCF = 3 \times 5 = 15$

Greatest Common Factor (J)

Name: _____

Date: _____

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

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

b) 174

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

144

$GCF = 2 \times 2 = 4$

c) 198

d) 104

110

128

e) 190

f) 138

200

120

g) 196

h) 102

147

120

i) 153

j) 168

171

138

Greatest Common Factor (J) Answers

Name: _____

Date: _____

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

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

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

$GCF = 2 \times 2 = 4$

b) $174 = 2 \times 3 \times 29$

$144 = 2 \times 2 \times 2 \times 2 \times 3 \times 3$

$GCF = 2 \times 3 = 6$

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

$110 = 2 \times 5 \times 11$

$GCF = 2 \times 11 = 22$

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

$128 = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$

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

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

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

$GCF = 2 \times 5 = 10$

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

$120 = 2 \times 2 \times 2 \times 3 \times 5$

$GCF = 2 \times 3 = 6$

g) $196 = 2 \times 2 \times 7 \times 7$

$147 = 3 \times 7 \times 7$

$GCF = 7 \times 7 = 49$

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

$120 = 2 \times 2 \times 2 \times 3 \times 5$

$GCF = 2 \times 3 = 6$

i) $153 = 3 \times 3 \times 17$

$171 = 3 \times 3 \times 19$

$GCF = 3 \times 3 = 9$

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

$138 = 2 \times 3 \times 23$

$GCF = 2 \times 3 = 6$