

# Greatest Common Factor (A)

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

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

List the factors of each number in each set and determine the greatest common factor.

Example. 153: (1), (3), (9), 17, 51, 153

117: (1), (3), (9), 13, 39, 117

GCF = 9

a) 150

170

b) 186

174

c) 180

184

d) 186

150

e) 196

104

# Greatest Common Factor (A) Answers

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

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

List the factors of each number in each set and determine the greatest common factor.

Example. 153: (1), (3), (9), 17, 51, 153

117: (1), (3), (9), 13, 39, 117

GCF = 9

a) 150: (1), (2), 3, (5), 6, (10), 15, 25, 30, 50, 75, 150

170: (1), (2), (5), (10), 17, 34, 85, 170

GCF = 10

b) 186: (1), (2), (3), (6), 31, 62, 93, 186

174: (1), (2), (3), (6), 29, 58, 87, 174

GCF = 6

c) 180: (1), (2), 3, (4), 5, 6, 9, 10, 12, 15, 18, 20, 30, 36, 45, 60, 90, 180

184: (1), (2), (4), 8, 23, 46, 92, 184

GCF = 4

d) 186: (1), (2), (3), (6), 31, 62, 93, 186

150: (1), (2), (3), 5, (6), 10, 15, 25, 30, 50, 75, 150

GCF = 6

e) 196: (1), (2), (4), 7, 14, 28, 49, 98, 196

104: (1), (2), (4), 8, 13, 26, 52, 104

GCF = 4

# Greatest Common Factor (B)

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

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

List the factors of each number in each set and determine the greatest common factor.

Example. 172: ①, ②, ④, 43, 86, 172

144: ①, ②, 3, ④, 6, 8, 9, 12, 16, 18, 24, 36, 48, 72, 144

GCF = 4

a) 132

144

b) 144

156

c) 162

192

d) 153

171

e) 188

136

# Greatest Common Factor (B) Answers

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

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

List the factors of each number in each set and determine the greatest common factor.

Example. 172: (1), (2), (4), 43, 86, 172

144: (1), (2), 3, (4), 6, 8, 9, 12, 16, 18, 24, 36, 48, 72, 144

**GCF = 4**

a) 132: (1), (2), (3), (4), (6), 11, (12), 22, 33, 44, 66, 132

144: (1), (2), (3), (4), (6), 8, 9, (12), 16, 18, 24, 36, 48, 72, 144

**GCF = 12**

b) 144: (1), (2), (3), (4), (6), 8, 9, (12), 16, 18, 24, 36, 48, 72, 144

156: (1), (2), (3), (4), (6), (12), 13, 26, 39, 52, 78, 156

**GCF = 12**

c) 162: (1), (2), (3), (6), 9, 18, 27, 54, 81, 162

192: (1), (2), (3), 4, (6), 8, 12, 16, 24, 32, 48, 64, 96, 192

**GCF = 6**

d) 153: (1), (3), (9), 17, 51, 153

171: (1), (3), (9), 19, 57, 171

**GCF = 9**

e) 188: (1), (2), (4), 47, 94, 188

136: (1), (2), (4), 8, 17, 34, 68, 136

**GCF = 4**

# Greatest Common Factor (C)

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

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

List the factors of each number in each set and determine the greatest common factor.

Example. 176: ①, ②, ④, 8, 11, 16, 22, 44, 88, 176

172: ①, ②, ④, 43, 86, 172

GCF = 4

a) 196

136

b) 100

104

c) 168

176

d) 140

180

e) 152

200

# Greatest Common Factor (C) Answers

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

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

List the factors of each number in each set and determine the greatest common factor.

Example. 176: (1), (2), (4), 8, 11, 16, 22, 44, 88, 176

172: (1), (2), (4), 43, 86, 172

**GCF = 4**

a) 196: (1), (2), (4), 7, 14, 28, 49, 98, 196

136: (1), (2), (4), 8, 17, 34, 68, 136

**GCF = 4**

b) 100: (1), (2), (4), 5, 10, 20, 25, 50, 100

104: (1), (2), (4), 8, 13, 26, 52, 104

**GCF = 4**

c) 168: (1), (2), 3, (4), 6, 7, (8), 12, 14, 21, 24, 28, 42, 56, 84, 168

176: (1), (2), (4), (8), 11, 16, 22, 44, 88, 176

**GCF = 8**

d) 140: (1), (2), (4), (5), 7, (10), 14, (20), 28, 35, 70, 140

180: (1), (2), 3, (4), (5), 6, 9, (10), 12, 15, 18, (20), 30, 36, 45, 60, 90, 180

**GCF = 20**

e) 152: (1), (2), (4), (8), 19, 38, 76, 152

200: (1), (2), (4), 5, (8), 10, 20, 25, 40, 50, 100, 200

**GCF = 8**

# Greatest Common Factor (D)

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

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

List the factors of each number in each set and determine the greatest common factor.

Example. 186: (1), (2), (3), (6), 31, 62, 93, 186

120: (1), (2), (3), 4, 5, (6), 8, 10, 12, 15, 20, 24, 30, 40, 60, 120

GCF = 6

a) 112

104

b) 172

160

c) 200

160

d) 182

130

e) 156

200

# Greatest Common Factor (D) Answers

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

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

List the factors of each number in each set and determine the greatest common factor.

Example. 186: (1), (2), (3), (6), 31, 62, 93, 186

120: (1), (2), (3), 4, 5, (6), 8, 10, 12, 15, 20, 24, 30, 40, 60, 120

**GCF = 6**

a) 112: (1), (2), (4), 7, (8), 14, 16, 28, 56, 112

104: (1), (2), (4), (8), 13, 26, 52, 104

**GCF = 8**

b) 172: (1), (2), (4), 43, 86, 172

160: (1), (2), (4), 5, 8, 10, 16, 20, 32, 40, 80, 160

**GCF = 4**

c) 200: (1), (2), (4), (5), (8), (10), (20), 25, (40), 50, 100, 200

160: (1), (2), (4), (5), (8), (10), 16, (20), 32, (40), 80, 160

**GCF = 40**

d) 182: (1), (2), 7, (13), 14, (26), 91, 182

130: (1), (2), 5, 10, (13), (26), 65, 130

**GCF = 26**

e) 156: (1), (2), 3, (4), 6, 12, 13, 26, 39, 52, 78, 156

200: (1), (2), (4), 5, 8, 10, 20, 25, 40, 50, 100, 200

**GCF = 4**



# Greatest Common Factor (E)

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

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

List the factors of each number in each set and determine the greatest common factor.

Example. 120: ①, ②, ③, ④, 5, ⑥, 8, 10, ⑫, 15, 20, 24, 30, 40, 60, 120

132: ①, ②, ③, ④, ⑥, 11, ⑫, 22, 33, 44, 66, 132

GCF = 12

a) 144

152

b) 150

125

c) 132

138

d) 126

102

e) 190

160

# Greatest Common Factor (E) Answers

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

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

List the factors of each number in each set and determine the greatest common factor.

Example. 120: (1), (2), (3), (4), 5, (6), 8, 10, (12), 15, 20, 24, 30, 40, 60, 120

132: (1), (2), (3), (4), (6), 11, (12), 22, 33, 44, 66, 132

**GCF = 12**

a) 144: (1), (2), 3, (4), 6, (8), 9, 12, 16, 18, 24, 36, 48, 72, 144

152: (1), (2), (4), (8), 19, 38, 76, 152

**GCF = 8**

b) 150: (1), 2, 3, (5), 6, 10, 15, (25), 30, 50, 75, 150

125: (1), (5), (25), 125

**GCF = 25**

c) 132: (1), (2), (3), 4, (6), 11, 12, 22, 33, 44, 66, 132

138: (1), (2), (3), (6), 23, 46, 69, 138

**GCF = 6**

d) 126: (1), (2), (3), (6), 7, 9, 14, 18, 21, 42, 63, 126

102: (1), (2), (3), (6), 17, 34, 51, 102

**GCF = 6**

e) 190: (1), (2), (5), (10), 19, 38, 95, 190

160: (1), (2), 4, (5), 8, (10), 16, 20, 32, 40, 80, 160

**GCF = 10**

# Greatest Common Factor (F)

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

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

List the factors of each number in each set and determine the greatest common factor.

Example. 189: ①, ③, 7, ⑨, 21, 27, 63, 189

117: ①, ③, ⑨, 13, 39, 117

GCF = 9

a) 156

102

b) 176

116

c) 186

138

d) 160

144

e) 124

104

# Greatest Common Factor (F) Answers

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

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

List the factors of each number in each set and determine the greatest common factor.

Example. 189: ①, ③, 7, ⑨, 21, 27, 63, 189

117: ①, ③, ⑨, 13, 39, 117

**GCF = 9**

a) 156: ①, ②, ③, 4, ⑥, 12, 13, 26, 39, 52, 78, 156

102: ①, ②, ③, ⑥, 17, 34, 51, 102

**GCF = 6**

b) 176: ①, ②, ④, 8, 11, 16, 22, 44, 88, 176

116: ①, ②, ④, 29, 58, 116

**GCF = 4**

c) 186: ①, ②, ③, ⑥, 31, 62, 93, 186

138: ①, ②, ③, ⑥, 23, 46, 69, 138

**GCF = 6**

d) 160: ①, ②, ④, 5, ⑧, 10, ⑩, 20, 32, 40, 80, 160

144: ①, ②, 3, ④, 6, ⑧, 9, 12, ⑩, 18, 24, 36, 48, 72, 144

**GCF = 16**

e) 124: ①, ②, ④, 31, 62, 124

104: ①, ②, ④, 8, 13, 26, 52, 104

**GCF = 4**

# Greatest Common Factor (G)

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

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

List the factors of each number in each set and determine the greatest common factor.

Example. 156: ①, ②, 3, ④, 6, 12, 13, 26, 39, 52, 78, 156

164: ①, ②, ④, 41, 82, 164

GCF = 4

a) 168

156

b) 112

148

c) 150

190

d) 116

132

e) 153

102

# Greatest Common Factor (G) Answers

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

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

List the factors of each number in each set and determine the greatest common factor.

Example. 156: (1), (2), 3, (4), 6, 12, 13, 26, 39, 52, 78, 156

164: (1), (2), (4), 41, 82, 164

GCF = 4

a) 168: (1), (2), (3), (4), (6), 7, 8, (12), 14, 21, 24, 28, 42, 56, 84, 168

156: (1), (2), (3), (4), (6), (12), 13, 26, 39, 52, 78, 156

GCF = 12

b) 112: (1), (2), (4), 7, 8, 14, 16, 28, 56, 112

148: (1), (2), (4), 37, 74, 148

GCF = 4

c) 150: (1), (2), 3, (5), 6, (10), 15, 25, 30, 50, 75, 150

190: (1), (2), (5), (10), 19, 38, 95, 190

GCF = 10

d) 116: (1), (2), (4), 29, 58, 116

132: (1), (2), 3, (4), 6, 11, 12, 22, 33, 44, 66, 132

GCF = 4

e) 153: (1), (3), 9, (17), (51), 153

102: (1), 2, (3), 6, (17), 34, (51), 102

GCF = 51

# Greatest Common Factor (H)

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

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

List the factors of each number in each set and determine the greatest common factor.

Example. 120: (1), (2), (3), 4, 5, (6), 8, 10, 12, 15, 20, 24, 30, 40, 60, 120

102: (1), (2), (3), (6), 17, 34, 51, 102

GCF = 6

a) 190

100

b) 108

102

c) 154

132

d) 104

116

e) 200

124

# Greatest Common Factor (H) Answers

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

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

List the factors of each number in each set and determine the greatest common factor.

Example. 120: (1), (2), (3), 4, 5, (6), 8, 10, 12, 15, 20, 24, 30, 40, 60, 120

102: (1), (2), (3), (6), 17, 34, 51, 102

**GCF = 6**

a) 190: (1), (2), (5), (10), 19, 38, 95, 190

100: (1), (2), 4, (5), (10), 20, 25, 50, 100

**GCF = 10**

b) 108: (1), (2), (3), 4, (6), 9, 12, 18, 27, 36, 54, 108

102: (1), (2), (3), (6), 17, 34, 51, 102

**GCF = 6**

c) 154: (1), (2), 7, (11), 14, (22), 77, 154

132: (1), (2), 3, 4, 6, (11), 12, (22), 33, 44, 66, 132

**GCF = 22**

d) 104: (1), (2), (4), 8, 13, 26, 52, 104

116: (1), (2), (4), 29, 58, 116

**GCF = 4**

e) 200: (1), (2), (4), 5, 8, 10, 20, 25, 40, 50, 100, 200

124: (1), (2), (4), 31, 62, 124

**GCF = 4**



# Greatest Common Factor (I)

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

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

List the factors of each number in each set and determine the greatest common factor.

Example. 100: ①, ②, ④, 5, 10, 20, 25, 50, 100

108: ①, ②, 3, ④, 6, 9, 12, 18, 27, 36, 54, 108

**GCF = 4**

a) 120

104

b) 100

110

c) 156

100

d) 190

110

e) 195

117

# Greatest Common Factor (I) Answers

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

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

List the factors of each number in each set and determine the greatest common factor.

Example. 100: (1), (2), (4), 5, 10, 20, 25, 50, 100

108: (1), (2), 3, (4), 6, 9, 12, 18, 27, 36, 54, 108

**GCF = 4**

a) 120: (1), (2), 3, (4), 5, 6, (8), 10, 12, 15, 20, 24, 30, 40, 60, 120

104: (1), (2), (4), (8), 13, 26, 52, 104

**GCF = 8**

b) 100: (1), (2), 4, (5), (10), 20, 25, 50, 100

110: (1), (2), (5), (10), 11, 22, 55, 110

**GCF = 10**

c) 156: (1), (2), 3, (4), 6, 12, 13, 26, 39, 52, 78, 156

100: (1), (2), (4), 5, 10, 20, 25, 50, 100

**GCF = 4**

d) 190: (1), (2), (5), (10), 19, 38, 95, 190

110: (1), (2), (5), (10), 11, 22, 55, 110

**GCF = 10**

e) 195: (1), (3), 5, (13), 15, (39), 65, 195

117: (1), (3), 9, (13), (39), 117

**GCF = 39**

# Greatest Common Factor (J)

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

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

List the factors of each number in each set and determine the greatest common factor.

Example. 132: ①, 2, ③, 4, 6, ⑪, 12, 22, ③③, 44, 66, 132

165: ①, ③, 5, ⑪, 15, ③③, 55, 165

GCF = 33

a) 186

120

b) 152

188

c) 186

150

d) 117

195

e) 196

168

# Greatest Common Factor (J) Answers

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

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

List the factors of each number in each set and determine the greatest common factor.

Example. 132: (1), 2, (3), 4, 6, (11), 12, 22, (33), 44, 66, 132

165: (1), (3), 5, (11), 15, (33), 55, 165

**GCF = 33**

a) 186: (1), (2), (3), (6), 31, 62, 93, 186

120: (1), (2), (3), 4, 5, (6), 8, 10, 12, 15, 20, 24, 30, 40, 60, 120

**GCF = 6**

b) 152: (1), (2), (4), 8, 19, 38, 76, 152

188: (1), (2), (4), 47, 94, 188

**GCF = 4**

c) 186: (1), (2), (3), (6), 31, 62, 93, 186

150: (1), (2), (3), 5, (6), 10, 15, 25, 30, 50, 75, 150

**GCF = 6**

d) 117: (1), (3), 9, (13), (39), 117

195: (1), (3), 5, (13), 15, (39), 65, 195

**GCF = 39**

e) 196: (1), (2), (4), (7), (14), (28), 49, 98, 196

168: (1), (2), 3, (4), 6, (7), 8, 12, (14), 21, 24, (28), 42, 56, 84, 168

**GCF = 28**