

Greatest Common Factor (G)

Name: _____

Date: _____

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

a) $352 = 2 \times 2 \times 2 \times 2 \times 2 \times 11$

b) 152

$48 = 2 \times 2 \times 2 \times 2 \times 3$

176

$GCF = 2 \times 2 \times 2 \times 2 = 16$

c) 24

d) 282

108

132

e) 212

f) 336

40

8

g) 72

h) 368

243

230

i) 248

j) 56

12

196

Greatest Common Factor (G) Answers

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

a) $352 = 2 \times 2 \times 2 \times 2 \times 2 \times 11$

$48 = 2 \times 2 \times 2 \times 2 \times 3$

$GCF = 2 \times 2 \times 2 \times 2 = 16$

b) $152 = 2 \times 2 \times 2 \times 19$

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

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

c) $24 = 2 \times 2 \times 2 \times 3$

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

$GCF = 2 \times 2 \times 3 = 12$

d) $282 = 2 \times 3 \times 47$

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

$GCF = 2 \times 3 = 6$

e) $212 = 2 \times 2 \times 53$

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

$GCF = 2 \times 2 = 4$

f) $336 = 2 \times 2 \times 2 \times 2 \times 3 \times 7$

$8 = 2 \times 2 \times 2$

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

g) $72 = 2 \times 2 \times 2 \times 3 \times 3$

$243 = 3 \times 3 \times 3 \times 3 \times 3$

$GCF = 3 \times 3 = 9$

h) $368 = 2 \times 2 \times 2 \times 2 \times 23$

$230 = 2 \times 5 \times 23$

$GCF = 2 \times 23 = 46$

i) $248 = 2 \times 2 \times 2 \times 31$

$12 = 2 \times 2 \times 3$

$GCF = 2 \times 2 = 4$

j) $56 = 2 \times 2 \times 2 \times 7$

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

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