

Greatest Common Factor (J)

Name: _____

Date: _____

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

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

b) 132

$164 = 2 \times 2 \times 41$

114

$GCF = 2 \times 2 = 4$

c) 116

d) 168

316

8

e) 400

f) 318

360

234

g) 290

h) 320

50

368

i) 300

j) 130

368

190

Greatest Common Factor (J) Answers

Name: _____

Date: _____

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

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

$164 = 2 \times 2 \times 41$

$GCF = 2 \times 2 = 4$

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

$114 = 2 \times 3 \times 19$

$GCF = 2 \times 3 = 6$

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

$316 = 2 \times 2 \times 79$

$GCF = 2 \times 2 = 4$

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

$8 = 2 \times 2 \times 2$

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

e) $400 = 2 \times 2 \times 2 \times 2 \times 5 \times 5$

$360 = 2 \times 2 \times 2 \times 3 \times 3 \times 5$

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

f) $318 = 2 \times 3 \times 53$

$234 = 2 \times 3 \times 3 \times 13$

$GCF = 2 \times 3 = 6$

g) $290 = 2 \times 5 \times 29$

$50 = 2 \times 5 \times 5$

$GCF = 2 \times 5 = 10$

h) $320 = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 5$

$368 = 2 \times 2 \times 2 \times 2 \times 23$

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

i) $300 = 2 \times 2 \times 3 \times 5 \times 5$

$368 = 2 \times 2 \times 2 \times 2 \times 23$

$GCF = 2 \times 2 = 4$

j) $130 = 2 \times 5 \times 13$

$190 = 2 \times 5 \times 19$

$GCF = 2 \times 5 = 10$