

Greatest Common Factor (E)

Name: _____

Date: _____

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

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

b) 72

$204 = 2 \times 2 \times 3 \times 17$

68

$GCF = 2 \times 2 = 4$

c) 40

d) 12

4

188

e) 180

f) 84

268

366

g) 76

h) 368

44

196

i) 308

j) 80

392

308

Greatest Common Factor (E) Answers

Name: _____

Date: _____

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

a) $124 = (2) \times (2) \times 31$

$204 = (2) \times (2) \times 3 \times 17$

$GCF = (2) \times (2) = 4$

b) $72 = (2) \times (2) \times 2 \times 3 \times 3$

$68 = (2) \times (2) \times 17$

$GCF = (2) \times (2) = 4$

c) $40 = (2) \times (2) \times 2 \times 5$

$4 = (2) \times (2)$

$GCF = (2) \times (2) = 4$

d) $12 = (2) \times (2) \times 3$

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

$GCF = (2) \times (2) = 4$

e) $180 = (2) \times (2) \times 3 \times 3 \times 5$

$268 = (2) \times (2) \times 67$

$GCF = (2) \times (2) = 4$

f) $84 = (2) \times 2 \times (3) \times 7$

$366 = (2) \times (3) \times 61$

$GCF = (2) \times (3) = 6$

g) $76 = (2) \times (2) \times 19$

$44 = (2) \times (2) \times 11$

$GCF = (2) \times (2) = 4$

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

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

$GCF = (2) \times (2) = 4$

i) $308 = (2) \times (2) \times (7) \times 11$

$392 = (2) \times (2) \times 2 \times (7) \times 7$

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

j) $80 = (2) \times (2) \times 2 \times 2 \times 5$

$308 = (2) \times (2) \times 7 \times 11$

$GCF = (2) \times (2) = 4$