Greatest Common Factor (C)

Name: _____ Date: _____

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

a) $18 = 2 \times 3 \times 3$

$27 = 3 \times 3 \times 3$

GCF = $3 \times 3 = 9$

b) 52

76

c) 28

64

d) 20

32

e) 70

56

f) 64

80

g) 60

64

h) 63

84

i) 48

36

j) 72

18

Greatest Common Factor (C) Answers

Name: _____ Date: _____

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

a) $18 = 2 \times 3 \times 3$

$27 = 3 \times 3 \times 3$

GCF = $3 \times 3 = 9$

b) $52 = 2 \times 2 \times 13$

$76 = 2 \times 2 \times 19$

GCF = $2 \times 2 = 4$

c) $28 = 2 \times 2 \times 7$

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

GCF = $2 \times 2 = 4$

d) $20 = 2 \times 2 \times 5$

$32 = 2 \times 2 \times 2 \times 2 \times 2$

GCF = $2 \times 2 = 4$

e) $70 = 2 \times 5 \times 7$

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

GCF = $2 \times 7 = 14$

f) $64 = 2 \times 2 \times 2 \times 2 \times 2 \times 2$

$80 = 2 \times 2 \times 2 \times 2 \times 5$

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

g) $60 = 2 \times 2 \times 3 \times 5$

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

GCF = $2 \times 2 = 4$

h) $63 = 3 \times 3 \times 7$

$84 = 2 \times 2 \times 3 \times 7$

GCF = $3 \times 7 = 21$

i) $48 = 2 \times 2 \times 2 \times 2 \times 3$

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

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

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

$18 = 2 \times 3 \times 3$

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