

Greatest Common Factor (B)

Name: _____

Date: _____

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

a) $76 = 2 \times 2 \times 19$

b) 78

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

84

$GCF = 2 \times 2 = 4$

c) 84

d) 40

90

100

e) 9

f) 45

18

75

g) 44

h) 66

100

42

i) 30

j) 42

78

18

Greatest Common Factor (B) Answers

Name: _____

Date: _____

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

a) $76 = 2 \times 2 \times 19$

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

$GCF = 2 \times 2 = 4$

b) $78 = 2 \times 3 \times 13$

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

$GCF = 2 \times 3 = 6$

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

$90 = 2 \times 3 \times 3 \times 5$

$GCF = 2 \times 3 = 6$

d) $40 = 2 \times 2 \times 2 \times 5$

$100 = 2 \times 2 \times 5 \times 5$

$GCF = 2 \times 2 \times 5 = 20$

e) $9 = 3 \times 3$

$18 = 2 \times 3 \times 3$

$GCF = 3 \times 3 = 9$

f) $45 = 3 \times 3 \times 5$

$75 = 3 \times 5 \times 5$

$GCF = 3 \times 5 = 15$

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

$100 = 2 \times 2 \times 5 \times 5$

$GCF = 2 \times 2 = 4$

h) $66 = 2 \times 3 \times 11$

$42 = 2 \times 3 \times 7$

$GCF = 2 \times 3 = 6$

i) $30 = 2 \times 3 \times 5$

$78 = 2 \times 3 \times 13$

$GCF = 2 \times 3 = 6$

j) $42 = 2 \times 3 \times 7$

$18 = 2 \times 3 \times 3$

$GCF = 2 \times 3 = 6$