

Greatest Common Factor (I)

Name: _____

Date: _____

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

a) $32 = 2 \times 2 \times 2 \times 2 \times 2$

b) 64

$4 = 2 \times 2$

76

$GCF = 2 \times 2 = 4$

c) 100

d) 44

50

52

e) 90

f) 64

81

88

g) 64

h) 54

36

66

i) 56

j) 24

28

84

Greatest Common Factor (I) Answers

Name: _____

Date: _____

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

a) $32 = 2 \times 2 \times 2 \times 2 \times 2$

$4 = 2 \times 2$

$GCF = 2 \times 2 = 4$

b) $64 = 2 \times 2 \times 2 \times 2 \times 2 \times 2$

$76 = 2 \times 2 \times 19$

$GCF = 2 \times 2 = 4$

c) $100 = 2 \times 2 \times 5 \times 5$

$50 = 2 \times 5 \times 5$

$GCF = 2 \times 5 \times 5 = 50$

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

$52 = 2 \times 2 \times 13$

$GCF = 2 \times 2 = 4$

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

$81 = 3 \times 3 \times 3 \times 3$

$GCF = 3 \times 3 = 9$

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

$88 = 2 \times 2 \times 2 \times 11$

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

g) $64 = 2 \times 2 \times 2 \times 2 \times 2 \times 2$

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

$GCF = 2 \times 2 = 4$

h) $54 = 2 \times 3 \times 3 \times 3$

$66 = 2 \times 3 \times 11$

$GCF = 2 \times 3 = 6$

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

$28 = 2 \times 2 \times 7$

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

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

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

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