

# Greatest Common Factor (A)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

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

a)  $64 = 2 \times 2 \times 2 \times 2 \times 2 \times 2$

b) 96

$72 = 2 \times 2 \times 2 \times 3 \times 3$

48

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

c) 20

d) 36

8

90

e) 60

f) 12

44

56

g) 28

h) 90

8

9

i) 72

j) 72

96

66

# Greatest Common Factor (A) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

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

a)  $64 = (2) \times (2) \times (2) \times 2 \times 2 \times 2$

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

$GCF = (2) \times (2) \times (2) = 8$

b)  $96 = (2) \times (2) \times (2) \times (2) \times 2 \times (3)$

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

$GCF = (2) \times (2) \times (2) \times (2) \times (3) = 48$

c)  $20 = (2) \times (2) \times 5$

$8 = (2) \times (2) \times 2$

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

d)  $36 = (2) \times 2 \times (3) \times (3)$

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

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

e)  $60 = (2) \times (2) \times 3 \times 5$

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

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

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

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

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

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

$8 = (2) \times (2) \times 2$

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

h)  $90 = 2 \times (3) \times (3) \times 5$

$9 = (3) \times (3)$

$GCF = (3) \times (3) = 9$

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

$96 = (2) \times (2) \times (2) \times 2 \times 2 \times (3)$

$GCF = (2) \times (2) \times (2) \times (3) = 24$

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

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

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