

# Greatest Common Factor (A)

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

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

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

a)  $154 = 2 \times 7 \times 11$

b) 182

$112 = 2 \times 2 \times 2 \times 2 \times 7$

156

$GCF = 2 \times 7 = 14$

c) 132

d) 120

112

112

e) 168

f) 150

112

114

g) 104

h) 176

120

156

i) 116

j) 190

184

180

# Greatest Common Factor (A) Answers

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

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

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

a)  $154 = 2 \times 7 \times 11$

$112 = 2 \times 2 \times 2 \times 2 \times 7$

$GCF = 2 \times 7 = 14$

b)  $182 = 2 \times 7 \times 13$

$156 = 2 \times 2 \times 3 \times 13$

$GCF = 2 \times 13 = 26$

c)  $132 = 2 \times 2 \times 3 \times 11$

$112 = 2 \times 2 \times 2 \times 2 \times 7$

$GCF = 2 \times 2 = 4$

d)  $120 = 2 \times 2 \times 2 \times 3 \times 5$

$112 = 2 \times 2 \times 2 \times 2 \times 7$

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

e)  $168 = 2 \times 2 \times 2 \times 3 \times 7$

$112 = 2 \times 2 \times 2 \times 2 \times 7$

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

f)  $150 = 2 \times 3 \times 5 \times 5$

$114 = 2 \times 3 \times 19$

$GCF = 2 \times 3 = 6$

g)  $104 = 2 \times 2 \times 2 \times 13$

$120 = 2 \times 2 \times 2 \times 3 \times 5$

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

h)  $176 = 2 \times 2 \times 2 \times 2 \times 11$

$156 = 2 \times 2 \times 3 \times 13$

$GCF = 2 \times 2 = 4$

i)  $116 = 2 \times 2 \times 29$

$184 = 2 \times 2 \times 2 \times 23$

$GCF = 2 \times 2 = 4$

j)  $190 = 2 \times 5 \times 19$

$180 = 2 \times 2 \times 3 \times 3 \times 5$

$GCF = 2 \times 5 = 10$