Least Common Multiple (A)

Name: _____   Date: _____

Determine the least common multiple using the prime factors of each number.

1.   9 =   2.   18 =
    21 =   10 =
   LCM =   LCM =

3.   24 =   4.   16 =
    22 =   10 =
   LCM =   LCM =

5.   20 =   6.   15 =
    15 =   12 =
   LCM =   LCM =

7.   20 =   8.   10 =
     8 =   12 =
   LCM =   LCM =

9.   8 =   10.   25 =
    12 =   15 =
   LCM =   LCM =

Greatest Common Factor (A)

Name: _____   Date: _____

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

a) $396 = ②\times②\times③\times 3 \times 11$
$204 = ②\times②\times③\times 17$
$\text{GCF} = ②\times②\times③ = 12$

b) 297
135

c) 144
68

d) 186
288

e) 48
306

f) 76
108

g) 322
98

h) 72
78

i) 200
190

j) 44
4