Least Common Multiple (C)

Name: _____ Date: _____

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

1. 26 =
   28 =
   LCM =

2. 50 =
   45 =
   LCM =

3. 50 =
   22 =
   LCM =

4. 45 =
   18 =
   LCM =

5. 24 =
   34 =
   LCM =

6. 12 =
   30 =
   LCM =

7. 34 =
   6 =
   LCM =

8. 20 =
   36 =
   LCM =

9. 26 =
   39 =
   LCM =

10. 34 =
    46 =
    LCM =

Least Common Multiple (C)

Name: _____ Date: _____

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

1. $26 = 2 \times 13$
   $28 = 2^2 \times 7$
   LCM = $2^2 \times 7 \times 13$
   = 364

2. $50 = 2 \times 5^2$
   $45 = 3^2 \times 5$
   LCM = $2 \times 3^2 \times 5^2$
   = 450

3. $50 = 2 \times 5^2$
   $22 = 2 \times 11$
   LCM = $2 \times 5^2 \times 11$
   = 550

4. $45 = 3^2 \times 5$
   $18 = 2 \times 3^2$
   LCM = $2 \times 3^2 \times 5$
   = 90

5. $24 = 2^3 \times 3$
   $34 = 2 \times 17$
   LCM = $2^3 \times 3 \times 17$
   = 408

6. $12 = 2^2 \times 3$
   $30 = 2 \times 3 \times 5$
   LCM = $2^2 \times 3 \times 5$
   = 60

7. $34 = 2 \times 17$
   $6 = 2 \times 3$
   LCM = $2 \times 3 \times 17$
   = 102

8. $20 = 2^2 \times 5$
   $36 = 2^2 \times 3^2$
   LCM = $2^2 \times 3^2 \times 5$
   = 180

9. $26 = 2 \times 13$
   $39 = 3 \times 13$
   LCM = $2 \times 3 \times 13$
   = 78

10. $34 = 2 \times 17$
    $46 = 2 \times 23$
    LCM = $2 \times 17 \times 23$
    = 782