Least Common Multiple (I)

Name: _____ Date: _____

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

1. 26 =
   68 =
   LCM =

2. 8 =
   14 =
   LCM =

3. 45 =
   6 =
   LCM =

4. 63 =
   30 =
   LCM =

5. 55 =
   25 =
   LCM =

6. 98 =
   94 =
   LCM =

7. 22 =
   96 =
   LCM =

8. 10 =
   75 =
   LCM =

9. 32 =
   26 =
   LCM =

10. 93 =
    90 =
    LCM =

Least Common Multiple (I)

Name: _____ Date: _____

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

1. $26 = 2 \times 13$
   $68 = 2^2 \times 17$
   LCM = $2^2 \times 13 \times 17$
   = 884

2. $8 = 2^3$
   $14 = 2 \times 7$
   LCM = $2^3 \times 7$
   = 56

3. $45 = 3^2 \times 5$
   $6 = 2 \times 3$
   LCM = $2 \times 3^2 \times 5$
   = 90

4. $63 = 3^2 \times 7$
   $30 = 2 \times 3 \times 5$
   LCM = $2 \times 3^2 \times 5 \times 7$
   = 630

5. $55 = 5 \times 11$
   $25 = 5^2$
   LCM = $5^2 \times 11$
   = 275

6. $98 = 2 \times 7^2$
   $94 = 2 \times 47$
   LCM = $2 \times 7^2 \times 47$
   = 4606

7. $22 = 2 \times 11$
   $96 = 2^5 \times 3$
   LCM = $2^5 \times 3 \times 11$
   = 1056

8. $10 = 2 \times 5$
   $75 = 3 \times 5^2$
   LCM = $2 \times 3 \times 5^2$
   = 150

9. $32 = 2^5$
   $26 = 2 \times 13$
   LCM = $2^5 \times 13$
   = 416

10. $93 = 3 \times 31$
    $90 = 2 \times 3^2 \times 5$
    LCM = $2 \times 3^2 \times 5 \times 31$
    = 2790