Least Common Multiple **(G)**

Name: _____   Date: _____

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

1.   10 =

      98 =

      LCM =

2.   18 =

      98 =

      LCM =

3.   58 =

      12 =

      LCM =

4.   18 =

      82 =

      LCM =

5.   45 =

      75 =

      LCM =

6.   69 =

      45 =

      LCM =

7.   28 =

      100 =

      LCM =

8.   66 =

      36 =

      LCM =

9.   76 =

      58 =

      LCM =

10.   46 =

       22 =

       LCM =

Name: _____

Date: _____

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

1. $10 = 2 \times 5$

   $98 = 2 \times 7^2$

   LCM = $2 \times 5 \times 7^2$

   = 490

2. $18 = 2 \times 3^2$

   $98 = 2 \times 7^2$

   LCM = $2 \times 3^2 \times 7^2$

   = 882

3. $58 = 2 \times 29$

   $12 = 2^2 \times 3$

   LCM = $2^2 \times 3 \times 29$

   = 348

4. $18 = 2 \times 3^2$

   $82 = 2 \times 41$

   LCM = $2 \times 3^2 \times 41$

   = 738

5. $45 = 3^2 \times 5$

   $75 = 3 \times 5^2$

   LCM = $3^2 \times 5^2$

   = 225

6. $69 = 3 \times 23$

   $45 = 3^2 \times 5$

   LCM = $3^2 \times 5 \times 23$

   = 1035

7. $28 = 2^2 \times 7$

   $100 = 2^2 \times 5^2$

   LCM = $2^2 \times 5^2 \times 7$

   = 700

8. $66 = 2 \times 3 \times 11$

   $36 = 2^2 \times 3^2$

   LCM = $2^2 \times 3^2 \times 11$

   = 396

9. $76 = 2^2 \times 19$

   $58 = 2 \times 29$

   LCM = $2^2 \times 19 \times 29$

   = 2204

10. $46 = 2 \times 23$

   $22 = 2 \times 11$

   LCM = $2 \times 11 \times 23$

   = 506