

Least Common Multiple (F)

Name: _____

Date: _____

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

1. $87 =$

$96 =$

LCM =

2. $8 =$

$44 =$

LCM =

3. $96 =$

$30 =$

LCM =

4. $42 =$

$58 =$

LCM =

5. $15 =$

$25 =$

LCM =

6. $72 =$

$64 =$

LCM =

7. $93 =$

$36 =$

LCM =

8. $52 =$

$84 =$

LCM =

9. $44 =$

$76 =$

LCM =

10. $58 =$

$52 =$

LCM =

Least Common Multiple (F)

Name: _____

Date: _____

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

1. $87 = 3 \times 29$

$96 = 2^5 \times 3$

LCM = $2^5 \times 3 \times 29$

= **2784**

2. $8 = 2^3$

$44 = 2^2 \times 11$

LCM = $2^3 \times 11$

= **88**

3. $96 = 2^5 \times 3$

$30 = 2 \times 3 \times 5$

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

= **480**

4. $42 = 2 \times 3 \times 7$

$58 = 2 \times 29$

LCM = $2 \times 3 \times 7 \times 29$

= **1218**

5. $15 = 3 \times 5$

$25 = 5^2$

LCM = 3×5^2

= **75**

6. $72 = 2^3 \times 3^2$

$64 = 2^6$

LCM = $2^6 \times 3^2$

= **576**

7. $93 = 3 \times 31$

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

LCM = $2^2 \times 3^2 \times 31$

= **1116**

8. $52 = 2^2 \times 13$

$84 = 2^2 \times 3 \times 7$

LCM = $2^2 \times 3 \times 7 \times 13$

= **1092**

9. $44 = 2^2 \times 11$

$76 = 2^2 \times 19$

LCM = $2^2 \times 11 \times 19$

= **836**

10. $58 = 2 \times 29$

$52 = 2^2 \times 13$

LCM = $2^2 \times 13 \times 29$

= **1508**