Least Common Multiple (H)

Name:

Date:

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

56 =	2.	21 =	1.
91 =		36 =	
LCM =		LCM =	

3. 25 = 4. 40 =

5. 36 = 6. 12 = 44 = 64 =

7. 8 = 8. 24 = 28 = 93 =

9.
$$95 =$$
 10. $78 =$
 $76 =$ 24 =
LCM = LCM =

Least Common Multiple (H)

Name:

Date:

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

1.
$$21 = 3 \times 7$$
2. $56 = 2^3 \times 7$ $36 = 2^2 \times 3^2$ $91 = 7 \times 13$ $LCM = 2^2 \times 3^2 \times 7$ $LCM = 2^3 \times 7 \times 13$ $= 252$ $= 728$ 3. $25 = 5^2$ 4. $40 = 2^3 \times 5$ $95 = 5 \times 19$ $85 = 5 \times 17$ $LCM = 5^2 \times 19$ $LCM = 2^3 \times 5 \times 17$ $= 475$ $= 680$ 5. $36 = 2^2 \times 3^2$ 6. $12 = 2^2 \times 3$ $44 = 2^2 \times 11$ $64 = 2^6$ $LCM = 2^2 \times 3^2 \times 11$ $LCM = 2^6 \times 3$ $= 396$ $= 192$ 7. $8 = 2^3$ $8. 24 = 2^3 \times 3$ $28 = 2^2 \times 7$ $93 = 3 \times 31$ $LCM = 2^3 \times 7$ $LCM = 2^3 \times 3 \times 31$ $= 56$ $= 744$ 9. $95 = 5 \times 19$ $10. 78 = 2 \times 3 \times 13$ $76 = 2^2 \times 19$ $24 = 2^3 \times 3$ $LCM = 2^2 \times 5 \times 19$ $LCM = 2^3 \times 3 \times 13$ $= 380$ $= 312$