## Least Common Multiple (H)

Name: $\qquad$ Date: $\qquad$
Determine the least common multiple using the prime factors of each number.

$$
\text { 1. } \begin{array}{r}
21= \\
36= \\
\text { LCM }=
\end{array}
$$

3. $25=$
$95=$
LCM $=$
4. $36=$
$44=$
LCM =
5. $8=$
$28=$
LCM =
6. $95=$
$76=$
LCM $=$
7. $56=$ $91=$

LCM $=$
4. $40=$ $85=$ LCM =
6. $12=$ $64=$ LCM =
8. $24=$ $93=$

LCM =
10. $78=$
$24=$
LCM =

Name: $\qquad$
$\qquad$
Determine the least common multiple using the prime factors of each number.

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

