## Least Common Multiple (C)

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

$$
\text { 1. } \begin{aligned}
50 & = \\
60 & = \\
\text { LCM } & =
\end{aligned}
$$

3. $45=$
$95=$
LCM =
4. $88=$
$32=$
LCM =
5. $98=$
$60=$
LCM =
6. $94=$
$58=$
LCM =
7. $84=$
$81=$
LCM =
8. $80=$
$72=$
LCM $=$
9. $56=$ $40=$ LCM =
10. $38=$ $92=$

LCM =
10. $38=$ $62=$

LCM $=$

## Least Common Multiple (C)

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

1. $50=2 \times 5^{2}$ $60=2^{2} \times 3 \times 5$
$\mathrm{LCM}=2^{2} \times 3 \times 5^{2}$

$$
=300
$$

3. $45=3^{2} \times 5$
$95=5 \times 19$
$\mathrm{LCM}=3^{2} \times 5 \times 19$
$=855$
4. $\quad 88=2^{3} \times 11$
$32=2^{5}$
$\mathrm{LCM}=2^{5} \times 11$
$=352$
5. $\quad 98=2 \times 7^{2}$
$60=2^{2} \times 3 \times 5$
$\mathrm{LCM}=2^{2} \times 3 \times 5 \times 7^{2}$

$$
=2940
$$

9. $\quad 94=2 \times 47$

$$
58=2 \times 29
$$

LCM $=2 \times 29 \times 47$

$$
=2726
$$

2. $\quad 84=2^{2} \times 3 \times 7$
$81=3^{4}$

$$
\begin{aligned}
\mathrm{LCM} & =2^{2} \times 3^{4} \times 7 \\
& =2268
\end{aligned}
$$

4. $\quad 80=2^{4} \times 5$
$72=2^{3} \times 3^{2}$
$\mathrm{LCM}=2^{4} \times 3^{2} \times 5$
$=720$
5. $\quad 56=2^{3} \times 7$

$$
40=2^{3} \times 5
$$

$$
\mathrm{LCM}=2^{3} \times 5 \times 7
$$

$$
=280
$$

8. $\quad 38=2 \times 19$

$$
92=2^{2} \times 23
$$

$$
\mathrm{LCM}=2^{2} \times 19 \times 23
$$

$$
=1748
$$

10. $38=2 \times 19$
$62=2 \times 31$
$\mathrm{LCM}=2 \times 19 \times 31$
$=1178$
