Least Common Multiple (C)

Name:

Date:

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

1.	50 =	2.	84 =
	60 =		81 =

LCM = LCM =

5. 88 = 6. 56 = 32 = 40 =

7. 98 = 8. 38 =

Least Common Multiple (C)

Name:

Date:

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

1.
$$50 = 2 \times 5^2$$
2. $84 = 2^2 \times 3 \times 7$ $60 = 2^2 \times 3 \times 5$ $81 = 3^4$ LCM = $2^2 \times 3 \times 5^2$ LCM = $2^2 \times 3^4 \times 7$ $= 300$ $= 2268$ 3. $45 = 3^2 \times 5$ 4. $80 = 2^4 \times 5$ $95 = 5 \times 19$ $72 = 2^3 \times 3^2$ LCM = $3^2 \times 5 \times 19$ LCM = $2^4 \times 3^2 \times 5$ $= 855$ $= 720$ 5. $88 = 2^3 \times 11$ 6. $56 = 2^3 \times 7$ $32 = 2^5$ $40 = 2^3 \times 5$ LCM = $2^5 \times 11$ LCM = $2^3 \times 5 \times 7$ $= 352$ $= 280$ 7. $98 = 2 \times 7^2$ 8. $38 = 2 \times 19$ $60 = 2^2 \times 3 \times 5 \times 7^2$ LCM = $2^2 \times 19 \times 23$ $= 2940$ $= 1748$ 9. $94 = 2 \times 47$ 10. $38 = 2 \times 19$ $58 = 2 \times 29$ $62 = 2 \times 31$ LCM = $2 \times 29 \times 47$ LCM = $2 \times 19 \times 31$ $= 2726$ $= 1178$